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Disclaimer
This catalog includes academic policies, procedures, programs, courses, and requirements in effect at the time of publication. The University faculty and administration reserve the right to make changes in these regulations; some of these changes may affect students’ programs. Efforts will be made to publicize all changes, but it is the responsibility of students to ascertain the requirements of their programs at all times.
ADMISSION AND COSTS

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Undergraduate Admission

For the latest admissions information, visit our website (http://uwm.edu/admission/).

If you wish to apply as a degree candidate (freshman, re-entry, or transfer student), visit the University of Wisconsin System application website (https://apply.wisconsin.edu). You will need to supply the necessary documents like test scores and transcripts separately. We will accept transcripts and test results submitted electronically from a vendor or testing agency. You will be notified of any additional materials needed to complete your application (including what we still need from you to make an admission decision) and can track the receipt of these documents as well as the progress of your application review online via PAWS (https://paws.uwm.edu/psp/saprod/?cmd=login) ( Panther Access to Web Services).

If you wish to apply as a non-degree or summer guest student, you also may use the electronic applications available here (https://apply.wisconsin.edu/). If you require a paper application, you can download a PDF of any applications from this site.

Students may get in touch with us (http://uwm.edu/contact/) for easy access to an online information request form, as well as phone, email, live chat, and social media contact information. We are able to respond to any questions about visiting UWM, the application process, materials required, which application to submit, or any other concerns you might have.

Application Deadlines

UWM begins accepting undergraduate applications on September 15 for the following fall term, with a priority application deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 1. However, some programs have earlier deadlines and/or requirements. Check our website (http://uwm.edu/undergrad-admission/) for up-to-date information.

It is to your advantage to apply early so that you receive important information as soon as possible, not to mention scholarship consideration.

Variations in Admission Requirements and Deadlines

Architecture and Urban Planning

Admission to the School of Architecture and Urban Planning is selective and competitive. Most students admitted to the School will have a high school cumulative grade point average of 3.0 on a 4.0 unweighted scale and have a composite ACT score of at least 23 (SAT 1070). The application priority date for Architecture and Urban Planning is March 1 (for the subsequent fall term) or December 1 (for the spring term), but earlier application is advised. Performance on standardized tests, grade point average, and class rank is only a portion of the admission decision. Other factors include the applicant statements, rigor of high school curriculum, letters of recommendation, and extra-curricular activities.

Engineering and Applied Science

Admission to the College of Engineering and Applied Science is selective. The primary review factors are the strength and quality of the high school curriculum, high school class rank if available, grade point average, and ACT or SAT results. Well-prepared applicants will have four years of high school mathematics at the level of algebra and above and four years of natural science including biology, chemistry, and physics. Relevant non-academic factors are also considered. See the CEAS section of this Catalog for additional specific information.

Nursing

High school science units must include at least one year of high school chemistry. Admission to the pre-nursing program is selective. The application priority date is March 1 for fall applicants. Apply as early as possible; applications will be accepted only until program capacity has been reached.

Peck School of the Arts

- Dance: An audition is required for entry into both the Dance BFA and BA. Audition dates are scheduled during the fall, spring, and summer terms. More information is available through the Dance department (http://uwm.edu/arts/dance/).
- Art & Design: The Department of Art & Design requires all incoming students to submit a portfolio for review. The portfolio is required in order to be considered for the Art & Design Incoming Student Scholarship. Portfolio deadlines are October 15 (for spring admission) and March 1 (for summer or for fall admission with consideration for scholarships). More information through Art & Design (http://uwm.edu/arts/art-and-design/).
- Music: Students wishing to enter the UWM Music Department must interview and/or audition for admittance to any of the Music degree programs. You must arrange for an instrument or voice audition in person, online, Skype, or alternate submission. More information here (http://uwm.edu/arts/apply/).

Application Process

It is strongly recommended that you apply online (https://apply.wisconsin.edu/). Most applicants find it faster and more convenient, and applications are received and processed much more quickly. To apply for admission as a new freshman, see the Freshman (p. 16) section of this page.

For the latest admissions information, visit the UWM’s Undergraduate Admissions (http://uwm.edu/undergrad-admission/) page or call the Office of Undergraduate Admissions at (414) 229-2222.

Four-Year Graduation Guarantee

Many students choose to attend classes part time, but for others, attending full time in order to obtain their degree as quickly as possible is the top priority. If that is your goal, UWM’s Four-Year Graduation Guarantee may be for you.

To qualify, students must enter UWM as new freshmen during the fall term and must have appropriate academic preparation and placement test scores. They then sign a contract agreeing to satisfy other specified
academic progress requirements while following the prescribed program of study. UWM, in turn, guarantees that students who fulfill these requirements will be able to complete their undergraduate degree within four years of initial enrollment at UWM. This program is available within all of UWM’s baccalaureate programs, although specific requirements may vary. Your academic advisor can provide more information about this option, or contact the academic advising office of the school or college to which you will be seeking admission.

Advising and Orientation for New Students

All new students are assigned an academic advisor upon admission to UWM. New freshmen are required to participate in an advising, registration, and orientation program prior to their first semester of enrollment. These programs are held during the summer for students entering in the fall semester and during January for students entering in the spring semester. A family and guest orientation program is held concurrently with the student program.

In order to be invited to an orientation, new freshmen must take their Placement Tests, complete their University Housing contract or exemption form, pay their University Housing down payment (if applicable), and pay the $150 New Student Confirmation Deposit. More detailed information about this process will be mailed to you upon admission to the University. For more information, see our Admitted Students page (http://uwm.edu/admitted/). Advising and enrollment programs for transfer and non-traditional students also are conducted each year. Participation is strongly encouraged. Information is linked through our Student Orientation page (http://uwm.edu/studentorientation/new-transfers-fall/).

Summer Sessions Enrollment

Students admitted as degree candidates at UWM for the summer term may attend summer sessions and continue in the fall semester, provided they continue to satisfy established academic standards. Admission requirements are the same as for other semesters. Students enrolled for the spring semester automatically receive registration information for summer sessions.

New freshmen or transfer students admitted for the fall semester also may request a change of term to the preceding Summer Session in order to begin their studies earlier at UWM. For more information about a term change, call the Office of Undergraduate Admissions at (414) 229-2222. Or submit a term change form (http://uwm.edu/undergrad-admission/forms-resources/term-change-request/).

Students enrolled at another college or university during the academic year who wish to attend UWM during the summer term only may qualify for admission as Summer Guest students. See the Non-degree (p. 18) section of this page for specific information.

Find more information about summer sessions enrollment here (https://uwm.edu/undergrad-admission/student-type/summer-session/).

Admission to Pre-professional Programs

Students pursuing pre-professional programs in the School of Architecture and Urban Planning, Peck School of the Arts, Sheldon B. Lubar School of Business, School of Education, College of Engineering and Applied Science, College of Health Sciences, College of Nursing, and Helen Bader School of Social Welfare are admitted directly into those schools and colleges and are advised there. However, admission to a pre-professional program does not guarantee subsequent admission to the professional program or major.

Admission to the professional program/major occurs only after a student has completed the specific pre-professional requirements outlined in the school and college sections of this catalog. Admission to the pre-professional program does not imply or guarantee that a student will be able to enter or complete a professional program/major within any specific time period and, in fact, admission to some professional programs/majors is very competitive. Enrollment in required courses is subject to limitation.

Requirements for employment, licensing, or professional organizations: Students should be aware that some professions and occupations are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance by the placement site. Students are responsible for obtaining the information necessary to become knowledgeable about special requirements such as these and should plan their studies accordingly.

For the latest admissions information, visit our website (http://uwm.edu/admission/).

Freshman Admission Policy Statement

UWM will consider applicants who present evidence of appropriate preparation and potential for intellectual development. Both academic and non-academic factors will be assessed in an individualized, comprehensive applicant review. Academic factors considered include high school graduation or the equivalent, completion of an appropriate college preparatory curriculum, and evidence of academic ability and readiness based on the applicant’s high school record and performance on standardized tests. Relevant non-academic factors include characteristics or experiences that will contribute to UWM’s diversity, support the University’s educational mission, and provide additional evidence of the applicant’s academic potential.

Freshman Admission Standards

Freshman applicants will typically demonstrate an appropriate level of preparation and potential by providing evidence of the following:

1. High school graduation or its equivalent
   Graduation from a recognized high school or its equivalent (e.g., high school equivalency certificate or a diploma based on the GED or Wisconsin High School Equivalency Examination) is required. All freshman applicants must submit an official high school transcript with their application.
   Those who have completed the General Educational Development or Wisconsin High School Equivalency Examination are required to submit official test results, in addition to ACT or SAT test results, and an official transcript of any high school work they have completed. Applicants who are home-schooled, who have completed an alternative high school curriculum, or whose secondary school credentials are otherwise non-traditional, will be given full consideration for admission but may be required to present additional evidence demonstrating academic preparation.

2. Completion of an appropriate college preparatory curriculum
   Satisfactory completion of at least 17 credits (1 credit = 1 year) of high school courses, distributed as shown in the following chart, is the minimum expectation. Additional coursework beyond this minimum level is strongly encouraged and will increase the
applicant’s likelihood of academic success at the university. Some academic programs have additional academic preparation requirements.

3. Evidence of academic ability and readiness as demonstrated by academic performance in high school
All relevant academic factors are considered, including grades and grade point average; high school class rank (if available); choice of curriculum; and strength of the academic program relative to the course offerings available to the student in the high school.

4. Evidence of academic ability and readiness as demonstrated by performance on standardized test
All freshman applicants except those who are age 21 or older the semester they wish to enter UWM must submit official ACT or SAT scores. Students over the age of 21 may submit standardized test scores if they so desire. In some cases, applicants may be asked to undergo additional testing or supply additional materials before an admission decision is made.

5. Additional factors considered
Additional factors will be considered as part of the application review process. These might include, but are not limited to: evidence of leadership, creativity, special talents or abilities; membership in an underrepresented racial or ethnic group; veteran status; involvement in community service; educational or economic disadvantage; evidence of motivation and maturity; or other relevant factors that provide evidence of the applicant's readiness for university-level study. If we need to obtain additional information from you, we will communicate this to you after the initial review of your application. Applicants lacking some of the specific academic qualifications listed in sections 1-4 above may be offered admission if, on the basis of other factors, they appear to have a reasonable probability of success.

For the latest admissions information, visit our website (http://uwm.edu/admission/).

Transfer Student Admission and Acceptance of Transfer Credit
Transfer Admission Guidelines
Transfer admission is a holistic and selective process, and no single criterion guarantees admission. The following factors are taken into consideration when reviewing applications:

- Demonstrated satisfactory academic progress
- Successful completion of college-level math and English courses
- Total credit hours completed
- Academic standing at previous institution

If you have fewer than 12 transferable credits, we will also review your high school academic records.

Additional Specific Requirements
Transfer admission to the College of Engineering and Applied Science, the School of Architecture and Urban Planning, and the College of Nursing is selective. Many programs in the Peck School of the Arts have audition or portfolio requirements. In addition, admission to many other individual programs/majors is competitive and subject to capacity limitations, with higher standards or additional criteria considered. For more details, check the admission requirements listed for the particular academic program in which you are interested.

International students have additional application requirements; see that section for details.

Application Process
Apply electronically via the University of Wisconsin System electronic application website (https://apply.wisconsin.edu/). If you apply electronically, you will need to submit the necessary supporting documents separately. Electronic transcripts sent from schools and third party vendors should be sent to undergraduateadmissions@uwm.edu. Transfer applicants must submit, at minimum:

- a completed application form;
- official high school transcript(s);
- official transcript(s) from any post-secondary institution(s) attended; and
- the application fee (if required).

You will be notified of any additional materials needed to complete your application. Complete instructions and information about applicable deadlines are available on the website.

If you are unable to apply online, a PDF may be downloaded from https://apply.wisconsin.edu (https://apply.wisconsin.edu/) to print and mail in.

The Registrar’s Office will review your prior college coursework and post your transfer credit equivalencies to your PAWS account. This process can take 1-2 weeks following admission to the university, so it is important that you apply early in order to have this information in time for academic advising and registration prior to your desired term of enrollment (see dates and deadlines below).

Recommended Filing Dates for Transfer Students
Filing and completing your application for admission (including all transcripts and the application fee) as early as possible is recommended so that transfer students are able to receive an appointment to register for classes at approximately the same time as continuing students.

In general, a decision on a complete application is made by the Office of Undergraduate Admissions within 2-4 weeks, and transfer credit evaluations are completed within four weeks of the date of admission. Recommended dates by which a completed application should be on file are as follows: February 15 (summer and fall terms) and September 15 (spring term).

Application Deadlines for Transfer Students
Fall term: UWM begins accepting undergraduate applications on September 15 for the following fall term, with a priority deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached.

Spring term: Applications for the spring term (classes start in January) are typically accepted until December 1. However, some programs have earlier deadlines and/or requirements. Check our website (http://uwm.edu/undergrad-admission/) for up-to-date information.

Earlier deadlines apply for certain programs and applications received after enrollment capacity has been reached may not be reviewed.

The application priority date for Nursing and Architecture and Urban Planning is March 1 (for the subsequent fall term) or November 1 (for the spring term). For Art & Design or Music, apply by March 1 for scholarship consideration. Check our website (http://uwm.edu/
undergrad-admission/) for up-to-date information and for applicable deadlines for other terms.

**Transfer Credit Acceptance**
Credit is generally awarded for relevant and appropriate college-level coursework successfully completed at institutions accredited by a regional accrediting association. Credit may also be awarded for college-level work successfully completed at degree-granting institutions accredited by other national accrediting organizations that are recognized by the Council for Higher Education Accreditation (CHEA), assuming the provisions outlined below also are met. (Foreign institutions must be recognized by the Ministry of Education, or equivalent, of the home country.)

In order for credit to be awarded, courses must typically be similar in nature, level, and content to a course in UWM’s undergraduate curriculum, and be applicable to one of UWM’s academic programs at the baccalaureate level. Credit generally is not awarded for continuing education coursework or for courses that are remedial, vocational, technical, or doctrinal in nature.

Additional transfer credit may be awarded to students who enter specific programs for which UWM has established articulation agreements (https://uwm.edu/registrar/students/articulation-agreements/) or other program-specific transfer credit agreements, with a partner institution.

Seventy-two (72) credits is the maximum total number of credits that may be awarded for coursework earned at one or any combination of two-year (associate degree level) institution(s).

In addition to credit for courses completed at other schools, students can also receive transfer credit for previous education or training or by testing on their current knowledge. See Transfer Information (http://uwm.edu/registrar/students/transfer-information/) for more information.

**Credit Transfer from the Wisconsin Technical College System (WTCS)**
Students enrolled in the Wisconsin Technical College System who wish to continue their education at UWM may transfer credits toward their bachelor’s degree in the following ways:

- Students enrolled in a WTCS liberal arts program (at present, these are offered at Chippewa Valley Technical College, Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, and Western Technical College) may be eligible to transfer up to 72 credits toward the baccalaureate degree.
- Students enrolled at other WTCS programs or campuses may be eligible to transfer some appropriate general education coursework toward the baccalaureate degree.
- There are also many program-specific transfer credit agreements governing acceptance of credit from some WTCS programs. For details, see Transferring Course Credits (http://uwm.edu/onestop/degree-planning/transfer-credits/transferring-course-credits/).
- The UWM Office of Undergraduate Admissions maintains an office at the MATC-Milwaukee downtown campus in order to assist students with transfer-related questions. For more specific information, get in touch (http://uwm.edu/contact/) for easy access to an online information request form, as well as phone, email, live chat, or social media contact information.

For more information about these or other transfer opportunities, students should consult with their Wisconsin Technical College advisor, the UWM Office of Undergraduate Admissions, or the UWM Registrar’s Office.

Another helpful resource is the online Transfer Information System (http://tis.uwsa.edu) (TIS), which shows students how courses can transfer from one public Wisconsin institution to another.

For the latest admissions information, visit our website (http://uwm.edu/admission/).

**Re-entering and Re-admitted Students**
Students who have not been enrolled at UWM for more than two semesters must file a re-entry application to return to the University. Official transcripts of all college work taken during the absence from UW-Milwaukee must be submitted. This application is available on our Forms & Resources (http://uwm.edu/undergrad-admission/forms-resources/) page.

UWM begins accepting undergraduate applications on September 15 for the following fall term, with a priority deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 1. **However, some programs have earlier deadlines and/or requirements.** Check our website (http://uwm.edu/undergrad-admission/) for up-to-date information.

In addition to filing a re-entry application to the University, a student who has been dropped from the University because of poor academic performance must be approved for re-admission by the dean of the school or college from which the student was dropped. Students should schedule an appointment with their academic advisor to begin the school or college approval process.

For more information about re-entry procedures or to request an application form, contact the Office of Undergraduate Admissions at (414) 229-2222.

For the latest admissions information, visit our website (http://uwm.edu/admission/).

**Who should apply as Undergraduate Non-degree Student?**

- Guest students from another institution who want to take classes over summer or winter break and then transfer them back to their current institution
- Students who are taking prerequisites to get into a graduate program or professional school (ex: medical school, law school, etc.)
- Students who already have a bachelor’s degree and want to complete an undergraduate certificate program at UWM. Please also contact the department — a certificate program application may be required in addition to the non-degree university application
- Students who want to take some courses at UWM for personal or professional enrichment but do not want an undergraduate degree from UWM. You can either audit the courses (lower cost — no credit, no grades) or you can take courses for credit (transcribed and can be used towards a degree)

**60+ Auditors or Disabled Auditors:** Request a packet to be mailed to you by calling 414-229-4672.
Who should not apply as an Undergraduate Non-degree

- If you are wanting to receive an undergraduate degree from UWM you should apply as a degree-seeking student. Please review the transfer or new freshmen application process here (https://apply.wisconsin.edu/)..
- If you are considering graduate school, please meet with the graduate school to talk about required prerequisites prior to applying as an undergraduate non-degree student.

Non-degree Admission Guidelines

If you have already attended or are currently attending another college or university, then you must be in good financial standing at that institution (not have any past due accounts) to qualify for admission at UWM.

You must have graduated from a recognized high school at least one year prior to the desired semester of enrollment, or be admissible based upon acceptable GED test scores. Exceptions can be made if you are attending another university and can provide a copy of your admissions letter.

In most cases, we will not need your transcripts for admission. No transferable coursework or other credits earned (e.g. via AP or CLEP exam) will be posted to your UWM non-degree student record. Therefore, if you would like to take a course at UWM that requires a prerequisite you have earned elsewhere, you may need to get permission from the department to add the course.

Non-degree Financial Aid

Non-degree students do not automatically qualify for federal student aid. To qualify for aid at UWM, students need to be enrolled at least half time in an eligible certificate/certification program or be enrolled half time to complete prerequisites for a UWM graduate program. You will complete the Non-degree Enrollment Verification Form and have an advisor in your degree program sign it (not your non-degree advisor.) You can find this form here (http://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/).

For the latest admissions information, visit our website (http://uwm.edu/admission/).

Information for Out-of-State Students

Residency

Residency, for tuition purposes, is governed by Wisconsin statute. It is the mutual responsibility of the University and the student to make certain that he or she is correctly classified as a resident or non-resident for tuition purposes. If an error is discovered, the student will be notified that he or she must pay the non-resident portion of the tuition immediately. Students who question their status should contact the Office of Undergraduate Admissions in Mellenkamp Hall, Room 212, (414) 229-4672. A student who wishes to appeal the nonresident classification should request a non-residency appeal form prior to the tuition due date for the semester. For more information regarding residency, visit our Out of State admissions (https://uwm.edu/undergrad-admission/student-type/out-of-state/) page.

Minnesota/Wisconsin Reciprocity Agreement

Minnesota residents may be eligible to participate under the Minnesota/Wisconsin Reciprocity Agreement. Students certified under this program pay tuition at a special rate that is less than non-resident tuition. A certification year runs from July 1 through June 30, although degree students are normally certified once during the full duration of their academic career if they remain continuously enrolled.

Persons not certified by the date on which fees are due will be required to pay non-resident tuition and fees. The appropriate amount will then be refunded upon certification by the State of Minnesota Office of Higher Education Reciprocity Program. For more information, contact the State of Minnesota Office of Higher Education (http://www.ohe.state.mn.us/mPg.cfm?pageID=97), 1450 Energy Park Dr., Suite 350, St. Paul, MN 55108, (651) 642-0567, or (800) 657-3866.

Midwest Student Exchange Program

UWM participates in the Midwest Student Exchange Program (http://msep.mhec.org/) (MSEP), a collaborative program that enables qualified students to attend a participating college or university in another MSEP state at a substantial discount from the usual tuition rate. Students attending UWM as part of the MSEP will pay 150% of the Wisconsin resident rate.

Milwaukee Advantage Program (MAP)

Illinois students are eligible to receive an additional $1,000 award each year through the Milwaukee Advantage Program (MAP). The MAP award is renewable.

- MAP will be offered at both fall/spring terms. Spring term admits will be eligible for $500.
- Must be enrolled full time in order to be eligible. Falling below full-time status will result in cancellation of award.

Special Admission Programs for Students Still Enrolled in High School

The High School Special Program and the Early College Credit Program are designed to allow qualified high school students to enroll in university courses concurrently with high school classes. Applicants must generally rank in the upper 10% of their high school class and have a 3.5 GPA. For further information, contact your high school guidance counselor or the UWM Office of Undergraduate Admissions at (414) 229-2222. You also may review the information on our Dual Enrollment (https://uwm.edu/dualenrollment/) website.

Placement Testing

All incoming freshmen admitted to UW-Milwaukee are required to complete placement testing in math and English. Depending on your course of study, you also may be required to take an exam in chemistry and/or a foreign language. These tests help determine appropriate placement in your college courses and must be completed before you can enroll for classes. Transfer students and re-entry students may be required to take placement tests also, depending on previous coursework and intended degree plan. Check with your advisor to determine if you need to complete placement tests.

More information on course placement (http://uwm.edu/onestop/enrolling/eligibility-to-enroll/#placement) can be found on our One Stop Enrollment and Financial Services (http://uwm.edu/onestop/enrolling/eligibility-to-enroll/#placement) site.

Contact Information

Office of Undergraduate Admissions
Vogel Hall, 3253 N Downer Ave
Non-Degree admission requirements.

You must meet Graduate School and specific program requirements for admission. Please navigate to the Graduate School website (http://uwm.edu/graduateschool/admission/) to see the Master’s and Doctoral graduate school admission requirements. Refer to the program for its specific admission requirements.

Please be aware of recommended and required deadlines (http://uwm.edu/graduateschool/program-deadlines/). We recommend applying at least one year in advance of the term you wish to start.

Graduate Certificate

A certificate program is a sequence of courses that provides specialized knowledge and skills for personal enrichment, professional advancement, or career change. Certificate programs may provide:

- A basic introduction to an established field of study.
- An interdisciplinary approach linking several fields.
- A concentrated focus on a sub-field.

You must meet Graduate School and specific certificate program requirements for admission. Please go to the Graduate School website (http://uwm.edu/graduateschool/certificate-admission/) to see the graduate school admission requirements. Refer to the certificate program for its specific admission requirements.

Please be aware of recommended and required deadlines (http://uwm.edu/graduateschool/program-deadlines/). We recommend applying at least one year in advance of the term you wish to start.

Non-Degree

This admission category (also referred to as Graduate Special) allows you to take courses for graduate credit without pursuing a degree. Acceptance as an NDC does not guarantee admission to a graduate degree program.

Some programs have a minimum undergraduate grade point average for NDC admission. In addition, there are limits to the number of NDC credits that can be considered for transfer to a degree program (see Master's Requirements (http://uwm.edu/graduateschool/masters-requirements/#credit_transfers) for transferring credits to a master’s program and Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/#transfer_credit) for transferring credits to a doctoral program).

NDC students are usually not eligible for financial aid. Check with the Financial Aid Office regarding your particular situation. International applicants need to contact the Center for International Education (http://www4.uwm.edu/cie/) for additional NDC requirements.

You must meet Graduate School and specific program requirements for admission. Please go to the Graduate School website (http://uwm.edu/graduateschool/non-degree-admission/) to see the graduate school admission requirements. Please contact the specific program for their Non-Degree admission requirements.

Off-Campus

The Off Campus application is for graduate students not pursuing a degree or certificate program and are interested in participating in face-to-face or hybrid classes being offered somewhere other than the UWM main campus. Certain professional development courses or special programs may also be offered through the Off Campus application.

A bachelor’s degree is required for admission.

You must apply for Off-Campus admission using the Panthera Graduate School Application (https://graduateschool-apply.uwm.edu/). Look for the Off Campus Application link at the bottom of the left menu on the application home page.

Re-entering Admission

If you plan to return to your graduate program after an absence of two or more semesters (excluding summer and UWInterim sessions), you must apply to re-enter the Graduate School.

Please refer to the Graduate School website (http://uwm.edu/graduateschool/re-entering-graduate-school/) to determine if you meet the Re-Entry admission requirements prior to submitting an application.

International Admission

International Student Admission

UWM’s Center for International Education processes applications for students with significant education from outside the U.S., and any student who requires a student visa to study at UWM. Application requirements are located on the Center for International Education website (http://uwm.edu/cie/international-admissions/application-requirements/).

Contact Information

Center for International Education
Garland Hall, Room 138
Phone: (414) 229-4846
isse@uwm.edu
uwm.edu/cie/international-admissions/ (http://uwm.edu/cie/international-admissions/)

Tuition and Fees

Please visit UWM’s One Stop Enrollment and Financial Services (http://uwm.edu/onestop/finances/estimating-your-costs/tuition/) website for the most up-to-date information on the following:

- Tuition/Fee Schedules (http://uwm.edu/onestop/finances/estimating-your-costs/tuition/)
- Cost Calculators (http://uwm.edu/onestop/finances/estimating-your-costs/uwm-total-cost-estimator/)
- Billing, Payment Plans, and Refunds (http://uwm.edu/onestop/finances/billing-and-payment/)
- Bursar’s Office Policies and Procedures (http://uwm.edu/onestop/finances/bursars-office-policies-procedures/)

Contact Information

Department of Financial Aid, Student Employment, and Military Education Benefits
Aid and Scholarships

Most students (and their families) need to use a combination of tools to help finance their college education. Information to help you with all your financing questions can be found in the Finances section of the UWM One Stop Enrollment and Financial Services (http://uwm.edu/onestop/finances/) website. This includes information on:

- Financial Aid Process (http://uwm.edu/onestop/finances/receiving-financial-aid/)
- Military Education Benefits (http://uwm.edu/onestop/finances/veterans-services/)
- Work-Study and Student Employment (http://uwm.edu/onestop/finances/work-study-student-employment/)

Other resources at One Stop (http://uwm.edu/onestop/) include tools to develop a budget, determine the most recent costs, apply for financial aid, and enter an installment plan. You will also find the contact information for both the Financial Aid Department and Bursar's Office. Please feel free to contact our staff for help with any questions you may have. You can also use our Virtual agent, Ask Pounce (https://uwm.edu/onestop/finances/ask-pounce/), for answers to many of the most common questions we receive.

Contact Information

Department of Financial Aid, Student Employment, and Military Education Benefits
Mellencamp Hall, Room 162

Phone: (414) 229-4541
finaid@uwm.edu

uwm.edu/financialaid/ (http://uwm.edu/financialaid/)
POLICIES

This catalog includes academic policies, procedures, programs, courses, and requirements in effect at the time of publication. The University faculty and administration reserve the right to make changes in these regulations; some of these changes may affect students’ programs. Efforts will be made to publicize all changes, but it is the responsibility of students to ascertain the requirements of their programs at all times.

- Undergraduate Policies (p. 22)
- Graduate Policies (p. 31)

Undergraduate Policies

Degree Requirements

The minimum number of credits required for graduation for the Associate degree is 60. Bachelor’s degrees require at least 120 credits, but many degree programs require 130 or more. Consult individual program pages in this catalog for the specific degree requirements associated with each program or major.

Class Standing/Level in School

Prerequisites for certain courses are determined by class standing. The chart below presents the number of credits for the different class standings.

<table>
<thead>
<tr>
<th>Class Standing</th>
<th>General Studies</th>
<th>Business &amp; Letters Information and Studies</th>
<th>Science &amp; Public Health</th>
<th>Nursing</th>
<th>All Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>24 or more</td>
<td>24-55</td>
<td>28-57</td>
<td>24-57</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td>N/A</td>
<td>56-85</td>
<td>58-95</td>
<td>58-85</td>
<td></td>
</tr>
<tr>
<td>Senior</td>
<td>N/A</td>
<td>86 or more</td>
<td>96 or more</td>
<td>86 or more</td>
<td></td>
</tr>
</tbody>
</table>

The prerequisite given in the course listing refers to the qualifications and/or standing needed to enroll in a given course. If no prerequisite is listed, the course is generally open to all students. If more than one prerequisite is listed, all are necessary unless a choice is clearly indicated. A student who enrolls in a course without the required prerequisites may be dropped.

Course Load

A full course load for undergraduates is considered to be a minimum of 12 credits. This definition may differ from that of the Veterans Administration, the Selective Service System, or other agencies. UWM assumes no responsibilities in this connection.

Grading System

UWM uses a letter grade system that includes “plus” and “minus” grades and is based on a 4.000 scale. For convenience in computing averages, each letter grade carries a specified number of points per credit. The scale of grades and points follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>(Points per credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>(4.000) Excellent</td>
</tr>
<tr>
<td>A-</td>
<td>(3.670)</td>
</tr>
<tr>
<td>B+</td>
<td>(3.330)</td>
</tr>
<tr>
<td>B</td>
<td>(3.000) Good</td>
</tr>
<tr>
<td>B-</td>
<td>(2.670)</td>
</tr>
<tr>
<td>C+</td>
<td>(2.330)</td>
</tr>
<tr>
<td>C</td>
<td>(2.000) Fair</td>
</tr>
<tr>
<td>C-</td>
<td>(1.670)</td>
</tr>
<tr>
<td>D+</td>
<td>(1.330)</td>
</tr>
<tr>
<td>D</td>
<td>(1.000) Poor</td>
</tr>
<tr>
<td>D-</td>
<td>(0.670)</td>
</tr>
<tr>
<td>F</td>
<td>(0-16)</td>
</tr>
<tr>
<td>F</td>
<td>(0.000) Fail</td>
</tr>
</tbody>
</table>

In addition, students may be allowed to take a limited number of courses on a “Credit/No Credit” basis, and may enroll on an “Audit” basis in courses for which they do not wish to obtain college credit. The following symbols are used where grade points are not involved:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>Credit</td>
<td>C- or above (credit/no credit courses only)</td>
</tr>
<tr>
<td>No Credit</td>
<td>Below C- (credit/no credit courses only)</td>
</tr>
<tr>
<td>NC</td>
<td>Not completed (audit courses only)</td>
</tr>
<tr>
<td>Not Rptd</td>
<td>Grade was not submitted in time to be reported</td>
</tr>
<tr>
<td>W</td>
<td>Course dropped by student after fourth week of semester or first quarter of shorter session</td>
</tr>
<tr>
<td>WR</td>
<td>Administrative drop (enrollment in course violates permitted number of repeats)</td>
</tr>
<tr>
<td>#W</td>
<td>Administrative drop (enrollment in course violates permitted number of repeats), effective March 2002</td>
</tr>
<tr>
<td>R</td>
<td>Repeat course (counts in GPA)</td>
</tr>
<tr>
<td>#</td>
<td>Repeat course (does not count in GPA)</td>
</tr>
</tbody>
</table>

F Grades – Additional Information

Effective fall 2004, the University modified its system for assigning grades of F in order to comply with federal requirements for students receiving financial aid. When reporting a grade of F, instructors also will report a number corresponding to the student’s “week of last participation” in the course. This is the last week of the term for which there is documented evidence of the student’s participation in the course. A student receiving the grade of F0 would, therefore, be one who never attended or participated, whereas a student grade of F16 would signify completion of the entire term. The numeral for “week of last participation” will be reflected on unofficial transcripts and grade reports. On official transcripts, only the grade of F will be reflected.

Grade Point Average

The number of grade points earned in a course is computed by multiplying the points for the grade by the number of credits offered for the course. (Example: A B earned in a three-credit course would give you nine grade points.)
The general quality of a student’s work is expressed in terms of the grade point average (GPA). This is the total number of grade points earned divided by the total number of GPA credits. The highest possible average is 4.000 or an A in every subject.

The UWM grade point average recorded on your official transcript is based solely upon credits earned or attempted at UWM on a regular graded basis. Even though you may receive credits for coursework taken elsewhere, such transfer credits are not counted as part of the GPA at UWM. Some schools and colleges have different standards for GPA calculation and may include transfer work for admission or graduation; see degree requirements within each school/college for specifics. Credits granted by examination or UWM credits taken on an audit or credit/no credit grading basis also are excluded from the official UWM grade point average.

Credits transferred internally between curricular tracks within the University of Wisconsin - Milwaukee will carry grade point value and count as UWM credit for repeat purposes.

If you are returning to UWM and have not previously earned your undergraduate degree, your cumulative GPA will continue from your last point of enrollment. If you have previously earned your undergraduate degree, you should apply as a “Second Degree” student. Your credits and GPA will start over with the courses you take upon your return, and your original record cannot be altered.

University-wide Academic Action Policy

The University-wide Academic Action Policy establishes minimum standards for undergraduate students enrolled in schools and colleges. Individual schools and colleges may adopt stricter criteria; students should consult the school/college advising offices for specific information.

A student whose GPA falls below minimum university-wide standards for any grading period will be subject to the following academic actions.

- **Academic Probation**: Imposed on students whose cumulative GPA falls below 2.000. The student on academic probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on academic probation.
- **Cleared Probation**: Achieved when cumulative GPA increases to 2.000 or above.
- **Dropped for One Semester**: Imposed on any student on academic probation who fails to earn a semester GPA of 2.000.
- **Final Probation**: Applies to a student who is permitted to enroll after any drop action. The student on final probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on final academic probation.
- **Dropped for Two Years**: Imposed on any student on final probation who fails to achieve a semester and cumulative GPA of 2.000 or better.
- **Re-instatement/Re-admission**: A dropped student may be re-instated immediately after a drop action or re-admitted after the drop period. A re-admitted or re-instated student is placed on final probation.

**Academic Drop**

Academic drop is dismissal from the University for academic ineligibility. Academic drop is initiated by administrative offices. The student must apply for re-admission and be granted permission to re-enroll by the dean of the school or college from which the student was dropped.

**Academic Forgiveness**

**Eligibility**

To qualify for forgiveness, a former degree candidate must:

1. Not have graduated from UW-Milwaukee or have earned a baccalaureate degree from any other institution.
2. Not have been enrolled as a degree- or non-degree-seeking student at UW-Milwaukee or any other academic institution for a period of three consecutive years any time between initial enrollment at UWM and readmission. Enrollment in any credit course through any academic institution disrupts the required three-year non-enrollment period, even if the student withdrew from the course(s).
3. Be readmitted to UW-Milwaukee as a degree-seeking student, and
4. Have a cumulative grade-point average below a 2.00 at the time of readmission.

**Explanations and Restrictions**

1. The “Academic Forgiveness Period” is defined as all academic work completed at UWM prior to the three year period of no enrollment.
2. After readmission, students must earn a GPA of 2.5 or higher in the first 12 earned credits at UW-Milwaukee BEFORE applying for academic forgiveness.
3. Academic forgiveness does not adjust the GPA and number of credits attempted and counted toward Satisfactory Academic Progress for financial aid.
4. All other University policies (for example, UW-Milwaukee Repeat Policy) remain in effect and are not changed by the academic forgiveness policy.
5. To be eligible for a degree, students must complete a minimum of 30 credits at UW-Milwaukee after the granting of academic forgiveness.
6. If a student seeks admission to a degree program other than the one that granted his/her academic forgiveness, that school or college has the right to consider all coursework and grades, including those academically forgiven, in making its admission determination.

**Impact on Student’s Record**

1. A notation in the remarks area of the student’s transcript indicates academic forgiveness. All courses taken and grades earned during the Academic Forgiveness Period will continue to appear on the student’s record, but the grades of all classes taken during the Academic Forgiveness Period will be excluded from the student’s cumulative grade-point average.
2. All grades earned in courses that were taken during the Academic Forgiveness Period will be excluded from the student’s cumulative grade point average. Students may not retain grades earned in some courses within the Academic Forgiveness Period and have academic forgiveness applied to others.
3. If academic forgiveness is granted, credit hours earned during the Academic Forgiveness Period may be used to satisfy degree requirements even though they are not included in calculating the student’s total GPA.

**For more information on applying for Academic Forgiveness, please visit the website: [https://uwm.edu/onestop/your-student-record/grades/] section of One Stop.
Incompletes
An incomplete may be given to an undergraduate who has carried a subject successfully until near the end of the semester but, because of illness or other unusual and substantiated cause beyond that student’s control, has been unable to take or complete the final examination or to complete some limited amount of term work. An incomplete is not given unless the student proves to the instructor that s/he was prevented from completing course requirements for just cause as indicated above.

A course marked incomplete must be completed during the next succeeding semester, excluding summer sessions and UWinteriM. If the student does not remove the incomplete during this period, the report of “I” will lapse to “F”. With approval of the instructor, additional time may be granted through a request to the instructor for an Extended Incomplete (“EI”), including cases where the “I” lapsed to “F”. The determination to assign an “EI” grade is at the sole discretion of the instructor or, if an instructor cannot be contacted, the department chair. The “EI” grade will lapse to “F” after one calendar year unless a final grade is awarded or another extension is requested by the instructor or department.

Incomplete (“I”) or Extended Incomplete (“EI”) courses may not be used to satisfy degree requirements. Incomplete (“I”) or Extended Incomplete (“EI”) courses will be converted to Permanent Incomplete (“PI”) prior to degree posting if not required for graduation.

Overloads
The maximum credit load for undergraduates is 18 credits in all schools and colleges, except Fine Arts (18 credits or three studio courses). Students enrolling in more than 18 credits will be assessed extra tuition above the normal full-time rate. A student must obtain approval for an overload in the office of his/her academic dean. Different credit load maximums apply during the summer and winter sessions. Consult the UWinteriM or Summer Sessions Schedule of Classes.

Repeating Courses
Unless a restriction is stated in the Schedule of Classes, undergraduates may repeat a course only once, and only the higher of the two grades will be calculated into the grade point average (GPA). Both attempts will appear on the student’s transcript.

If the UWM course repeats a course for which the student received transfer credit, only the UWM course will be calculated into the GPA, regardless of grade. Both attempts will be shown on the transcript. Once a bachelor’s degree has been earned, the academic career (credits, GPA, and coursework) starts over with any subsequent enrollment and the original record cannot be altered. Courses taken after the bachelor’s degree has been earned do not count as repeats of courses taken prior to the posting of the degree.

A student will not be permitted to repeat any course more than once without the prior approval of the student’s school/college advising office. Further restrictions apply. More information at uwm.edu/onestop (https://uwm.edu/onestop/enrolling/before-you-enroll/). The single repeat limit also applies to courses taken for audit or credit/no credit.

Note: Exceptions to this policy are variable-topic courses, which may be taken for credit as often as permitted for that particular course, as specified in the Schedule of Classes. A variable-topic course may count as a repeat of a previously taken course only if the topic is identical to that of the student’s earlier enrollment and the repeat occurs within the same academic career.

Students who took a course as a repeat prior to fall 1988 are entitled to one additional enrollment. Transfer students who did not previously take a course at UWM are entitled to one repeat at UWM of a course taken at a previous institution.

In courses of limited enrollment, students who have not taken the course previously have priority over students who are repeating the course. Individual schools and colleges may adopt stricter criteria. It is generally advisable for any student to consult an advisor before registering to repeat a course.

If you have previously earned your degree from UWM, your attempted and earned credits as well as your cumulative GPA will start over with the courses you take in pursuit of your second degree. Courses taken as part of your first degree will not be considered repeats. Your original record cannot be altered.

Residence Credit Requirement
Consult individual school or college sections for requirements regarding the number and kinds of credits a student must take in residence at UWM to be eligible to receive a UWM degree.

School of Architecture and Urban Planning
See the Requirements (p. 48) for the BS in Architectural Studies.

Peck School of the Arts
See the School’s Undergraduate Degree Requirements (p. 74).

Sheldon B. Lubar School of Business
See the Degree Completion Requirements on each program page:
- Accounting, BBA (p. 255)
- Accounting, BBA: Data Analysis (p. 258)
- Finance, BBA (p. 274)
- Human Resources Management, BBA (p. 279)
- Information Technology Management, BBA (p. 282)
- Marketing, BBA (p. 296)
- Supply Chain and Operations Management, BBA (p. 305)

School of Education
See the School’s Undergraduate Degree Requirements (p. 313).

College of Engineering and Applied Science
See the Policies and Regulations on each program page:
- Biomedical Engineering, BSE (p. 469)
- Civil Engineering, BSE (p. 474)
- Computer Engineering, BS (p. 482)
- Computer Science, BA (p. 489)
- Computer Science, BS (p. 493)
- Electrical Engineering, BSE (p. 500)
- Environmental Engineering, BSE (p. 478)
- Industrial Engineering, BSE (p. 548)
- Materials Engineering, BSE (p. 554)
- Mechanical Engineering, BSE (p. 559)

The BS in Applied Math and Computer Science (p. 486) follows the residence credit requirements of the College of Letters and Science.
College of General Studies
See the Requirements for the Associate of Arts and Sciences (p. 570) and the Collaborative Online AAS Program (p. 576).

College of Health Sciences
See the Requirements section for the following programs:
  - Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 586),
  - Biomedical Sciences, BS: Health Science Completion (p. 591)
  - Biomedical Sciences, BS: Health Sciences (p. 591)
  - Communication Sciences and Disorders, BS (p. 608)
  - Occupational Science and Technology, BS (p. 644)

College of Letters and Science
See the Degree Residency Requirements (p. 707) under the Undergraduate Policies and Regulations section.

College of Nursing
See the Requirements for the BS in Nursing (p. 1245) and the Nursing RN to BS Program (p. 1252).

Helen Bader School of Social Welfare
See the Degree Requirements for the BS in Social Work (p. 1310) and the BS in Criminal Justice (p. 1293).

Graduate School
For residence credit requirements for graduate programs, see Graduate Policies (p. 31).

Graduation
Students must meet the graduation requirements of their school or college, which includes notifying the advising office in the school or college of their intent to graduate at least one semester prior to graduation. Generally, students may begin to apply for May Commencement in mid-November, and December Commencement in mid-April. To apply for graduation, log in to PAWS (https://paws.uwm.edu/psp/saprod/?cmd=login). From the "Academics" section of your Student Center, click on the "Other Academic" drop-down box, select "Apply for Graduation," and click on the double arrows to proceed to the application.

Commencement exercises are held in either May or December. Students who graduate at the end of the summer sessions participate in May Commencement. Students who graduate at the end of the UWinterM session participate in December Commencement. Attendance at Commencement is optional.

Commencement Honors are listed on each applicable Undergraduate program page.

Excess Credits Policy
A University of Wisconsin System (UWS) policy is in effect at all UWS institutions. Under this policy, students pursuing their initial degree(s) who have accumulated more than 165 total credits (counting all credits earned at UW campuses as well as credits taken at WTCS institutions and accepted for degree credit at UWS institutions) will be assessed a 100% surcharge on tuition for any additional credits (i.e., your tuition will be doubled). For more specific information about this policy, contact your academic advisor.

Students Called to Military Service
Students called into active military service should contact the Military Educational Benefits Office for more information, Mellencamp Hall 168, (414) 229-5699, or visit the website (https://www4.uwm.edu/mebo/).

Credit/No Credit Option
To be granted credit for a course for which you have registered credit/no credit, you must earn a grade of C- or better. Consult the table below to determine whether you may enroll for courses on a credit/no credit basis. Courses may not be taken credit/no credit if they are to be used to satisfy the GER English and mathematics competencies or awarding of final honors.

<table>
<thead>
<tr>
<th>School or College</th>
<th>Who qualifies?</th>
<th>Which course may be taken?</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture and Urban Planning</td>
<td>Pre-Architecture and upper-level students with a 2,500 cumulative GPA</td>
<td>Elective courses; courses other than the 48 credits required for the Architectural Studies degree</td>
<td>Maximum of eight courses; one course per semester.</td>
</tr>
<tr>
<td>The Arts</td>
<td>Undergraduates in the major. Any course that would fulfill the core curriculum requirements</td>
<td>Courses outside the major.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Undergraduates in Business and Pre-Business.</td>
<td>All non-Business (courses outside the School of Business Administration) that are not required as part of the student's major</td>
<td>Maximum of eight courses; one course per semester. No Business course may be taken on a C/NC basis by any student regardless of their program unless it is only offered on a C/NC basis. Pre-Business students may not take ECON 103, ECON 104, or MATH 211 on a C/NC basis.</td>
</tr>
<tr>
<td>Education</td>
<td>Undergraduates in Education and Pre-Education.</td>
<td>Please see your advisor.</td>
<td>Please see your advisor.</td>
</tr>
<tr>
<td>Engineering and Applied Science</td>
<td>Undergraduates in Engineering and Applied Science.</td>
<td>Free elective or arts/humanities/social science elective courses</td>
<td>Maximum of 12 credits; no more than three credits in any one semester.</td>
</tr>
<tr>
<td>General Studies</td>
<td>Undergraduates in the Associate career.</td>
<td>Only courses outside of the core writing and math requirements and the breadth requirements of the Associate degree.</td>
<td>Maximum of four courses. The credits will be counted toward total degree credits earned but will not affect a student’s grade point average.</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>Undergraduates admitted to the College of Health Sciences.</td>
<td>No required courses in any of the pre-professional or professional programs may be taken on a C/NC basis.</td>
<td>Only one course, regardless of number of credits, may be taken per semester. A maximum of 12 credits may be taken C/NC.</td>
</tr>
<tr>
<td>Information Studies</td>
<td>Undergraduates in Information Science and Technology.</td>
<td>All non-Information Studies (courses outside the School of Information Studies) that are not required as part of the student’s major.</td>
<td>Maximum of eight courses; one course per semester.</td>
</tr>
<tr>
<td>Letters and Science</td>
<td>Undergraduates in Letters and Science.</td>
<td>Courses other than Honors courses that are not in the student’s major or minor.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
<tr>
<td>Nursing</td>
<td>Undergraduates in Nursing.</td>
<td>Non-clinical elective courses in Nursing.</td>
<td>Maximum of six credits; no more than one course per semester.</td>
</tr>
<tr>
<td>Social Welfare</td>
<td>Undergraduate majors and pre-majors in Social Work and Criminal Justice.</td>
<td>Only used in courses outside the 54-65 credit requirements in the Social Work or Criminal Justice major.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
<tr>
<td>University Special and Off-Campus</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 University Special Students should contact an advisor in the Office of Undergraduate Admissions (http://uwm.edu/undergrad-admission/). Off-campus students should contact the appropriate program coordinator.

Some courses are offered on a C/NC basis only. These may be taken in addition to the above limits. C/NC courses are not counted in the GPA, but courses in which credit is earned will count toward graduation. Courses may be changed from a regular graded basis to C/NC or vice versa only during the same period as courses may be added. Only one such change may be made per semester per course.

The University of Wisconsin-Milwaukee is an equal opportunity, affirmative action institution, and does not discriminate on the basis of race, sex, color, creed, national origin, disability, or any other protected status recognized by Wisconsin or federal law. In 1990, s. 36.12, Wisconsin Statutes, was enacted, which provides as follows: No student may be denied admission to, participation in, or the benefits of, or discriminated against in any service, program, course, or facility of the (UW) System or its institutions or centers because of the student’s race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status, or parental status.

University policies also prohibit harassment or retaliation against complainants on any of these bases. These policies are in compliance with all relevant Wisconsin and federal laws, rules, and regulations.

Under the provision of the Family Educational Rights and Privacy Act of 1974, a student is entitled to review the education records related to the student that the University maintains. A student may request a hearing regarding any alleged inaccurate, misleading, or inappropriate information contained in the record.

The University may not disclose information from a student’s record to a third party unless the student gives consent, or unless permitted to do so by the Family Educational Rights and Privacy Act of 1974. A student may contact the Undergraduate Records Office or the Office of the Dean of Students, both in Mellencamp Hall, for further information.

Questions about the application of any of these policies, or complaints about violations, may be directed to the appropriate admitting or employing office, or to the campus Office of Equity and Diversity Services, Mitchell Hall, Room 359, or phone (414) 229-5923.

An information booklet on the UWM Disciplinary Guidelines and the appropriate sections of the Wisconsin Administrative Code covering conduct on University lands and student disciplinary procedures is available in the lobby of Mellencamp Hall and in several offices, including the Office of the Dean of Students, Mellencamp Hall, Room 118. Board of Regents rules require adherence by students and others present on the campus. Failure to comply with these rules may subject students to disciplinary action and to civil forfeitures. State of Wisconsin Statutes and Federal Law also apply on the campus of the University.

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You may restrict the release of your address and phone number and other limited information by checking a box on your registration form. If you do this, your address and phone number will not appear on most mailing lists used by UWM student organizations, campus departments, or on mailing lists obtained from UWM by non-University groups.

The various academic units at UWM have set up appeals and grievance procedures. Students may avail themselves of these procedures by contacting a department chair, the dean’s office of the school or college from which the course was taken, or the Office of the Dean of Students.

**UWM Equal Opportunity Policy**

It is the policy of the University of Wisconsin-Milwaukee to provide equal opportunity and prohibit discrimination and harassment for its employees and students in all programs, activities, and employment. UWM is committed to actively implement all federal and state equal opportunity and affirmative action laws, executive orders, policies, plans, rules, and regulations.

UWM’s Discriminatory Conduct Policy (Including Sexual Harassment) (S-47) defines discrimination as conduct that
1. adversely affects any aspect of an individual’s employment, education, or participation in activities or programs at UWM; and
2. is based on one or more characteristics of the individual that are protected under federal, state, or local laws.

Characteristics that are protected under federal, state, or local law (protected statuses) may include age; ancestry; arrest or conviction record; color; disability; gender identity/expression; identity as a veteran, disabled veteran, or Vietnam veteran; marital status; membership in the National Guard, state defense force, or any other reserve component of the military forces of the United States or this state; national origin; pregnancy; political affiliation; race; religion; sex; sexual orientation; or use of lawful products off the premises during non-working hours (e.g., smoking cigarettes).

Harassment is a form of prohibited discrimination. UWM defines harassment as conduct that

1. is of any type (oral, written, graphic, or physical);
2. is directed towards or against a person because of the person’s protected status (as listed above); and
3. unreasonably interferes with the individual’s work, education, or participation in activities or programs at UWM, or creates a working or learning environment that a reasonable person would find threatening or intimidating.

Sexual harassment includes unwanted sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature.

Speech or expressive behavior (e.g., use of visual, recorded, or written materials) used in the context of an instructional setting may be found to constitute harassment only if the speech is persistent, pervasive, and not germane to the subject matter, or so singularly severe as to create a hostile environment. Protected Expressive Behavior in an instructional situation is explained in UWM Selected Academic and Administrative Policies No. S-44, Public Expression of Opinion.

In addition, the University prohibits retaliation against individuals who engage in protected activities under the policy. Retaliation is defined as employment or academic decisions that are made because a student, employee, or applicant for employment has made a complaint, assisted with or served as a witness in an investigation, or instituted proceedings alleging discrimination.

UWM maintains a written affirmative action plan in order to meet its commitment to the principles of equal opportunity and affirmative action. The plan is available to all persons for inspection and is on reserve in the University Library and on UWM’s website.

To protect the rights of employees and students, numerous grievance procedures have been developed on this campus. Although all grievants are encouraged to resolve complaints by working with the relevant parties and administrators, inquiries involving complaints of discrimination or harassment based on protected class status may be directed to the UWM Office of Equity and Diversity Services, Mitchell Hall 359, (414) 229-5923.

Hate/Bias Incident Reporting

In the last few years, there has been an increased focus on the reporting of hate- and bias-motivated incidents on university campuses across the nation. UWM defines a hate- or bias-motivated incident as any disruptive conduct (oral, written, graphic, or physical) that is against an individual, or individuals, because of their actual, or perceived, race, color, national origin/ancestry, religion, sex, age, disability, sexual orientation, gender identity/expression, veteran and National Guard status, marital status, pregnancy, political affiliation, or arrest/conviction record. If you believe the incident involves criminal conduct, please call 911 or 9-911 (UWM campus police) from a UWM phone, in addition to completing the Hate/ Bias Incident Reporting Form (https://www4.uwm.edu/eds/hatebias/form/?a1=edit). You may use this form to report any hate/bias incident that has occurred

1. on UWM property, buildings, or housing; and/or
2. at UWM-sponsored events or activities, regardless of location.

University Policies and Programs Concerning Illicit Drugs and Alcohol

Consistent with the federal Drug Free Schools and Communities Act, the University of Wisconsin-Milwaukee (UWM) maintains a comprehensive alcohol and other drug abuse prevention program. This includes interventions that target at-risk individuals, programs that target the student body as a whole, and environmental-level strategies that impact the college and surrounding community. UWM prohibits the unlawful possession, use, distribution, manufacture, or dispensing of illicit drugs and alcohol on university property or as part of university activities. Each semester, students receive information that describes pertinent laws, rules, and sanctions, as well as the health effects of abuse, and a list of treatment resources.

Please Note:

For the latest enrollment information, check online at our One Stop Enrollment and Financial Services (https://uwm.edu/onestop/enrolling/before-you-enroll/) site.

Eligibility to Enroll

You can find more information on enrollment eligibility (https://uwm.edu/onestop/enrolling/before-you-enroll/) at UWM’s One Stop site.

Enrollment is the process of signing up for classes, which is typically completed electronically in PAWS (https://paws.uwm.edu/psp/saprod/?cmd=login). Continuing students are generally able to enroll in classes as long as these requirements are met:

- Enrollment in classes at UWM within the past two fall/spring terms (if not, an application for re-entry to UWM (http://uwm.edu/undergrad-admission/student-type/re-entry/) must be submitted)
- An application for graduation was not submitted for the current semester (if so, the Registrar’s Office (https://uwm.edu/registrar/) must be contacted to postpone graduation or an application must be submitted for a new program to pursue after graduation)
- No Holds (https://uwm.edu/onestop/enrolling/before-you-enroll/) exist in PAWS (https://paws.uwm.edu/) (view Hold details in PAWS)

New students must be officially admitted in order to be eligible to enroll. New freshmen enroll during New Student Orientation (https://uwm.edu/studentsuccess/newstudentorientation/).

For more information about the application and admission processes, see the Admission section (p. 15) of this catalog.
Academic Advising Prior to Enrollment

All students are assigned an academic advisor upon admission to UWM and all new freshmen must meet with their advisor before they will be permitted to enroll for their first term. Academic advising prior to enrollment is strongly encouraged for all students.

These requirements are subject to change. If you are unsure of the requirements for your particular program, or do not know who your academic advisor is, consult your school/college advising office (https://uwm.edu/onestop/enrolling/academic-advising/).

Enrollment Procedures and Deadlines

The initial enrollment cycle begins in October for the winter term, November for the spring term, March for the summer term, and April for the fall term. The Schedule of Classes may be viewed online.

Continuing students are assigned enrollment appointment times that can be viewed on PAWS. Enrollment appointments indicate the first opportunity to enroll online using PAWS after priority enrollment begins. New and re-entering students will receive enrollment information as soon as appropriate after admission. New freshmen enroll as part of New Student Orientation (http://uwm.edu/studentorientation/).

Students are assigned an "earliest possible" enrollment date and time based on their level and total earned credits within their level (e.g., graduate student, senior, junior, sophomore, freshman, special/non-degree student). More information on enrollment appointments (https://uwm.edu/onestop/enrolling/before-you-enroll/) can be found at One Stop.

Details about the enrollment process, deadlines for a particular term, and penalties for late enrollment are described at One Stop (https://uwm.edu/onestop/enrolling/before-you-enroll/). Please ensure that you are taking advantage of your earliest opportunity to enroll, as well as complying with necessary procedures and deadlines.

Priority Enrollment Appointments

The following student populations have been granted priority in assigned enrollment appointments, applicable to continuing and transfer students:

- Military veterans*
- Honors College students
- Student Athletes
- Student Dance/Cheer Team members
- Students approved for priority enrollment through the Accessibility Resource Center (http://uwm.edu/arc/).

* Student veterans can be approved for priority enrollment once verified by the Military Education Benefits Office (http://uwm.edu/onestop/finances/veterans-services/).

Priority Enrollment Appointments are assigned beginning the first hour of the first day of each semester’s enrollment period.

Change of Enrollment/Add and Drop or Withdrawal from Classes

After initial enrollment, students have the opportunity to modify their class schedule by adding, dropping, or withdrawing from classes during specific periods prior to the start of the semester. Such changes can be made without financial penalty until the start of the term (or before the start of a particular summer session). However, significant financial penalties can apply for changes made beyond the appropriate deadline, and some departments have unique deadlines and approval requirements governing how and when students may add and drop particular courses. Some academic programs also require their students to obtain specific approval for adding or dropping courses. Consult the Interactive Add/ Drop Calendar (http://uwm.edu/onestop/dates-and-deadlines/interactive-adddrop-calendar/) and Important Dates by Term (http://uwm.edu/onestop/dates-and-deadlines/important-dates-by-term/) for dates, deadlines, and procedures.

Late Enrollment and Late Payment Fees

Additional fees and penalties will be assessed of students who enroll after published deadlines or who pay their fee/tuition assessments late. Consult the Interactive Add/Drop Calendar (http://uwm.edu/onestop/dates-and-deadlines/interactive-adddrop-calendar/) and Important Dates by Term (http://uwm.edu/onestop/dates-and-deadlines/important-dates-by-term/) in order to avoid these penalties.

Concurrent Enrollment

Undergraduate students may enroll in coursework outside of the curricular track associated with their degree program with approval from their academic dean.

Students wishing to enroll concurrently at UWM and at another college or university may do so only with the advance approval of their UWM school/college advising office.

Students enrolled part time at more than one UW campus normally pay fees separately to each campus. Students enrolled full time at one campus and part time at another generally pay full-time tuition at their full-time campus and only segregated fees at the part-time campus. However, some specialized programs or courses with special class fees may require payment above the full-time fee rate. Contact the Registrar’s Office (https://uwm.edu/registrar/contact-us/) for additional details.

ID Cards

UW System regulations require that each student have a picture ID card. This card is used to verify student status and eligibility for participation or service. Students are expected to obtain their ID during their first semester at UWM. Should students obtain their ID card at their home campus. ID cards may be obtained at the Milwaukee campus in the PantherCard Office, Union W198. ID cards may be obtained in the Library on each respective campus of the College of General Studies.

If you are enrolled only in online courses and wish to obtain an ID card verifying your affiliation with UWM, go to uwm.edu/onestop (http://uwm.edu/onestop/) for more information.

Program Integrity

Pursuant to the U.S. Department of Education’s Program Integrity Rule, the University of Wisconsin-Milwaukee is required to provide all prospective and current students with the contact information of the state agency or agencies that handle complaints against postsecondary educational institutions offering distance learning or correspondence education within that state. Students are encouraged to utilize the institution’s internal complaint or review policies and procedures through the Dean of Students Office (http://uwm.edu/deanofstudents/assistance/complaints-and-grievances/) (414-229-4632) or Office of the Provost (https://uwm.edu/academicaffairs/) (414-229-3203) prior to filing a complaint with the state agency or agencies. If no resolution
is reached, then the student may file a complaint with the Wisconsin Distance Learning Authorization Board (DLAB) through the following State Authorization Reciprocity Complaint Process at the following link: https://www.wisconsin.edu/student-complaints/ or by email to afgp@uwsa.edu.

Online Program Information
The following states require UWM to publish specific statements regarding the offering of online programs in their states:

Alabama
The University of Wisconsin-Milwaukee is authorized by:
Alabama Commission on Higher Education
P.O. Box 302000
Montgomery, AL 36104-3758

Alaska
UW-Milwaukee is exempt from authorization under AS 14.48 and 20 AAC 17.015 because the programs are online or distance delivered and do not have a physical presence in the state.

Georgia
UWM is registered with the Georgia Nonpublic Postsecondary Education Commission and is subject to the complaint procedures posted on the GNPEC website (https://gnpec.georgia.gov/student-complaints/).

Indiana
The University of Wisconsin-Milwaukee is authorized by:
The Indiana Board for Proprietary Education
101 W. Ohio Streete, Suite 670
Indianapolis, IN 46204-1984

Maryland
UWM is registered with the Maryland Higher Education Commission. UWM is subject to investigation of complaints by the Office of the Attorney General of the Maryland Higher Education Commission (MHEC). Contact information for MHEC:
Maryland Higher Education Commission
6 N. Liberty Street, 10th Floor
Baltimore, Maryland 21201

Minnesota
UW-Milwaukee is registered as a private institution with the Minnesota Office of Higher Education pursuant to Minnesota Statutes, sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

Washington
The University of Wisconsin-Milwaukee is authorized by the Washington Student Achievement Council and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree-Granting Institutions Act. This authorization is subject to periodic review and authorizes the University of Wisconsin-Milwaukee to offer field placement components for specific degree programs. The Council may be contacted for a list of currently authorized programs. Authorization by the Council does not carry with it an endorsement by the Council of the institution or its programs. Any person desiring information about the requirements of the act or the applicability of those requirements to the institution may contact the Council at P.O. Box 43430, Olympia, WA 98504-3430.

Associate Degree General Education Breadth Categories

Arts and Sciences, AAS
Arts and Humanities (A & HU)
Students must acquire knowledge of ideas, beliefs, and abiding concerns pertaining to the human condition as represented in literature, philosophy and cultural history. They must acquire a level of aesthetic appreciation of the human imagination as expressed in the fine arts, and appreciation of the impact of the arts upon the quality and character of human life. Courses listed as meeting the A or HU GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

Mathematical and Natural Sciences (MS & NS)
Students must know of the nature and workings of the physical universe. They must understand scientific method, the functions of numerical data and the solving of problems through mathematical and statistical computations, as well as the application of the scientific method in laboratory and experimental work. For this, an appropriate level of computer literacy is required. Students must also be aware of environmental conditions and challenges, the interrelationships of lifeforms and ecosystems, and the impact of human activities upon natural environments. Courses listed as meeting the MS or NS GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

Social Sciences (SS)
Students must understand the nature and dynamics of human social systems and how and why people organize their lives and resources. In doing so, students will learn about both their own and diverse cultures to acquire a historical perspective on long-term characteristics and consequences of social change and an informed understanding of the variety of human conditions and the interrelationships of nations, regions, peoples and individuals. Courses listed as meeting the SS GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

Application and Performance (AP)
Students must demonstrate an understanding of concepts, theory and knowledge through the application of their skills and understanding to specific problems and activities. Courses listed as meeting the AP GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

Cultural Diversity (CD)
Students must become aware of and sensitive to diversity issues and problems. Courses fulfilling this requirement will have a substantial emphasis on cultural diversity within the United States and examine these issues from at least one of the following perspectives: African American, Hispanic/Latino, Asian American, and American Indian topics. Courses listed as meeting the CD GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

Interdisciplinary Studies (IS)
Students must acquire an appreciation for the multiple dimensions of any given subject by applying the content, methods and assumptions of two or more disciplines. Students will learn to integrate knowledge from across the curriculum. A course is an interdisciplinary studies course if instructors from two or more disciplines teach the course. Courses
listed as meeting the IS GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

**Arts and Sciences, AAS (Collaborative Online Program)**
A student must complete general education coursework in a variety of different disciplines based on breadth categories established by the UW System shared learning goals. There are six different breadth categories. Each course is limited to only one breadth category.

**Knowledge of Human Cultures (HC)**
Courses focus on analysis of the human condition, culture, and society. This typically includes coursework that requires students to engage with and analyze human interaction and culture, social organization and institutions, historical contexts, and/or complex interdependent systems. If you are in HC courses you can expect to:

1. describe and evaluate existing knowledge of human cultures;
2. interpret and analyze data, texts, and/or artifacts; and/or
3. apply concepts across disciplines.

**Knowledge of the Natural World (NW)**
Courses focus on concepts and applications related to the natural and physical sciences and mathematics. If you are in NW courses you can expect to:

1. describe and evaluate existing knowledge of the natural world;
2. interpret, analyze and communicate data, results, and conclusions; and/or
3. apply concepts across disciplines.

**Critical and Creative Thinking (CC)**
Courses extend students’ abilities to analyze issues and produce responses that are both logical and innovative. If you are in CC classes you can expect to:

1. investigate problems;
2. execute analytical, practical, or creative tasks; and/or
3. combine or synthesize existing ideas, images, or expertise in original ways.

**Effective Communication (EC)**
Courses support and assess students’ development of reading, listening, speaking, information literacy, and/or writing proficiencies. If you are in EC classes you can expect to:

1. use effective reading, listening, speaking, and/or writing skills, for a variety of purposes and audiences; and/or
2. use language effectively to construct scholarly, evidence-based arguments.

**Intercultural Knowledge and Competence (IK)**
Courses prepare students to live and work in diverse contexts. Courses with this degree designation focus on building cross-cultural communication, interaction, and empathy with people from diverse backgrounds and cultures. If you are in IK courses you can expect to:

1. develop cultural self-awareness in the context of diverse human cultures; and/or
2. develop strategies for effectively and appropriately negotiating intercultural interactions.

**Individual, Social and Environmental Responsibility (ER)**
Courses prepare students to live and work in diverse contexts. Courses with this degree designation focus on building cross-cultural communication, interaction, and empathy with people from diverse backgrounds and cultures. If you are in ER courses you can expect to:

1. describe and evaluate ethical, social, and/or environmental issues; and/or
2. apply knowledge and skills for the purpose of civic engagement.

**Bachelor’s Degree General Education Requirements**
The General Education Requirements are intended to give structure to each student’s education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

The **competency requirements** are designed to assure basic proficiency in oral and written communication, quantitative literacy, and foreign language. The GER Quantitative Literacy Part A and Oral and Written Communications Part A requirements should be completed early in the academic career to ensure acquisition of critical skills for subsequent coursework. Many UWM schools/colleges require completion of Part A of those competencies prior to advancing to the professional portion of the major. Completion of the relevant Part A competency is also a prerequisite for some intermediate and advanced courses. The **distribution requirements** are designed to provide students with a broad body of knowledge in the areas of the arts, humanities, natural sciences, and social sciences as a foundation for specialization.

Specific GER requirements are as follows:

**Competency Requirements**

**Oral and Written Communication (OWC) Competency**

**OWC Part A**
Completion of OWC Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in ENGLISH 102;
2. transferring at least three credits with a grade of C or higher in a course equivalent to ENGLISH 102 or higher level expository writing course;
3. achieving an appropriate score on the English Placement Test (EPT) or other appropriate test, as determined by the English Department.

**OWC Part B**
The OWC Part B is satisfied by completing an approved advanced course (at least three credits) with a significant written or oral communication component by students who have completed the Part A requirement.

Courses that count toward the OWC Part B requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

**Quantitative Literacy (QL) Competency**

**QL Part A**
Completion of QL Part A can be demonstrated by satisfying one of the following options:
1. earning at least three credits with a grade of C or higher in MATH 102, MATH 103 (formerly 106), MATH 105, MATH 108, MATH 111/PHILOS 111, MATH 116, MATH 175, or equivalent courses; or
2. achieving a placement code of at least 30 on the mathematics placement test (or another appropriate test, as determined by the Mathematical Sciences Department).

**QL Part B**
The QL Part B is satisfied by completing at least one approved QL Part B course (at least three credits) as decided by the major. QL Part B courses make significant use of quantitative tools in the context of other course material.

1. These courses may not be taken credit/no credit if they are to be used to satisfy the OWC Part A requirement or QL Part A requirement.

**Foreign Language**
Completion of the foreign language requirement can be demonstrated by satisfying one of the following options:

1. complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language; or
2. complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college-level instruction in a single foreign language; or
3. demonstrate foreign language ability at least equivalent to 6 credits in two consecutive college semesters of a single foreign language by means of a satisfactory score on an approved placement, proficiency, departmental, or other appropriate examination.

**Distribution Requirements**
Courses taken for distribution provide the general educational background for each student. The distribution requirements comprise course choices from the following knowledge areas:

- The Arts. Three credits in a course in the history, philosophy, theory, or practice of the creative and interpretive arts (e.g., visual arts, dance, music, and theatre).
- The Humanities. A total of 6 credits in at least two courses.
- The Natural Sciences. A total of 6 credits in at least two courses. At least one course must include laboratory or field experience illustrating the generation and testing of data and the application of concepts and knowledge to the solution of problems.
- The Social Sciences. A total of 6 credits in at least two courses.
- Cultural Diversity. All UWM students who are subject to the GER (and entered UWM in fall 1989 or later) must complete, as part of their distribution requirements, 3 credits pertaining to the study of the life experiences of African Americans, Latino/Hispanic Americans, American Indians, or Asian Americans.

A list of GER Standard Distribution courses may be found online at uwm.edu/schedule/ (http://www4.uwm.edu/schedule/). Individual schools and colleges may have limitations on what GER courses from other schools and colleges can be counted; students should check with their advisor.

**Exceptions to GER**
Students who entered UWM as freshmen and/or earned transferable credit as a college student prior to September 2013 are not responsible for the Oral and Written Communication Part B or the Quantitative Literacy Part B.

Students who entered UWM as freshmen and/or earned transferable credit as a college student prior to September 1999 are not responsible for the GER foreign language competency. However, individual schools and colleges may require completion of higher-level foreign language courses; students are strongly encouraged to check with their advisors and/or review their Academic Requirements report on PAWS.

In general, second degree candidates from an accredited institution and students whose first semester in a degree program at an accredited institution predates September 1986 are not subject to the General Education Requirements.

All degree programs have specific requirements beyond GER. Consult with an academic advisor to design an appropriate course of study.

**Graduate Policies**

**Add/Drop Policy**
You may add or drop courses after the stated deadline only under extraordinary circumstances not related to academic performance. You must complete a Graduate School Request for Exception Form (http://uwm.edu/graduateschool/wp-content/themes/uwmwebid-graduateschool/media/exception-request.pdf). If you request a drop for medical reasons, you must supply documentation from a physician. Such add/drops require approval of your instructor, your graduate program unit, and the Graduate School.

Courses dropped after the fourth week of classes remain on your record and are noted on transcripts with the W (Withdrawal) symbol.


**Appealing Academic Decisions**
See Appeals, Grievances, and Exception Requests (http://uwm.edu/graduateschool/appeals-exceptions/).

**Audit Courses**
You do not receive a grade or earn graduate credit for audited courses. Auditors usually attend a course for the information available, generally without the commitment to carry out the assignments required for a grade. During the first week of classes, check with your instructor for the attendance and coursework standards expected of auditors. Some courses cannot be audited.

Auditing a course has additional consequences for financial aid, maximum credit load and fellowship purposes. Please see specific sections regarding these items.

**Change of Degree Program**
If you decide to change from one degree program to another, you must submit a new Degree Application to the Graduate School.

**Pursuing two programs at one time**
Unless you are enrolled in a formally approved coordinated degree program, you may not work toward two UWM graduate degrees at the same time. If you are admitted to a second degree program before receiving a graduate degree in the first program, you are considered to
have formally withdrawn from the first program and are no longer eligible for the degree in the first program.

Continuation
Your continuation in the Graduate School is at the discretion of the Graduate School, the student’s graduate program unit and the major professor. The minimum graduation GPA requirement is a cumulative 3.0 (4.0 basis) or better in all work taken toward the degree.

Academic Warning
You will receive an academic warning if your semester grade point average falls below 3.0.

Graduate Dean’s Approval Required to Continue
You will receive a “Graduate Dean’s Approval Required to Continue” if your cumulative grade point average falls below 3.0.

• If your semester GPA and cumulative GPA are both below 3.0, the Graduate Dean’s Approval will take precedence over an Academic Warning. You will be prevented from further registration unless you petition the Graduate School and receive a positive recommendation from your graduate program unit.

Academic Dismissal
The graduate program unit may recommend that you be academically dismissed for poor academic performance, lack of progress toward degree, or failure to meet graduate faculty policy or program requirements. The Graduate School, in consultation with the graduate program, may also initiate a dismissal for these reasons. In all cases, the Dean of the Graduate School makes the final decision regarding academic dismissal.

Recommendation for dismissal may be initiated for, but is not limited to, the following:

• A cumulative graduate grade point average below 3.0.
• Failing the doctoral preliminary examination.
• Failing the dissertation defense.
• Failing to have the doctoral dissertation accepted within the time period specified for deferral status (reverts to failed dissertation defense).
• Failing to successfully defend the doctoral dissertation upon a second attempt within the specified time period.
• Exceeding the time limit for degree completion.
• Accumulating U grades in thesis or dissertation courses.

Courses
Undergraduate/graduate
The courses listed for each graduate program in the Bulletin have been approved for graduate credit. Some 300-699 courses carry a U/G credit designation, meaning they have been approved to be offered for both undergraduate and graduate credit. To receive graduate credit, you must have graduate status and meet the special graduate student requirements indicated by the instructor on the syllabus. However, in any given semester a U/G course might be offered for undergraduate credit only. U/G courses being offered for graduate credit are designated with a “G” appended to the course number. You will not receive graduate credit for any course that is not offered for graduate credit or for any U/G course for which you did not register as a graduate student.

Graduate
All 700-999 courses carry a G credit designation, meaning they have been approved to be offered for graduate credit only. You must have current graduate status to be eligible to earn graduate credit in these courses. Students in other classifications must obtain the instructor’s approval to enroll in G courses.

Credit/No Credit Basis
You may not register for a course on a credit/no credit basis, except when a course is offered only for credit/no credit. (By definition, a grade of C- or above is required to receive credit under this type of registration.)

You can check your grades and other academic information on the PAWS Website (http://paws.uwm.edu/).

Credit Requirements
Credit requirement information can be found on the Graduate School website under Master’s Requirements (https://uwm.edu/graduateschool/master-requirements/) and Doctoral Requirements (https://uwm.edu/graduateschool/doctoral-requirements/). Recipients of Graduate School-administered awards or assistantships should refer to Financing Your Education (https://uwm.edu/graduateschool/financing-your-education/).

Dean
Your dean is Marija Gajdardziska-Josifovska. Her official title is Dean of the Graduate School.

Exceptions to Graduate School Policy
Exceptions to Graduate School academic policies and procedures may be granted (except in the case of credit overload) if the student and his or her graduate program representative are able to show that circumstances beyond the student’s control—illness, family emergency, etc.—prevented the student from complying with the policies. (Ignorance of the rules is not an acceptable reason to request an exception.)

Requests for exceptions must be submitted on a Graduate School Request for Exception Form (http://uwm.edu/graduateschool/wp-content/themes/uwmwebid-graduateschool/media/exception-request.pdf) prior to the semester in which the rule or requirement applies, if at all possible.

Listed below are common types of exception requests, and the required elements and supporting signature for each type.

Credit Overload
The maximum credit load for graduate students is 12 credits. Audited courses, Sport and Recreation courses, and zero-credit colloquium/seminar courses are excluded from the total credit count.

Requests to carry an overload will be considered if the student has a strong academic record and no outstanding incompletes. The request must be supported by the student’s advisor as well as the graduate program representative.

Dean’s Approval Required to Continue
A graduate student will receive a Graduate Dean’s Approval Required to Continue action if any of the following conditions exist:

• The student’s cumulative grade point average falls below 3.0
• The student is not removed from probation status within three enrolled semesters
• The student does not satisfy course deficiencies within three enrolled semesters.
This action precludes registration for a subsequent semester.

To receive permission to register following this action, students must demonstrate academic improvement and must show that factors that led to the placement of the Graduate Dean's Approval have been negated. The request must include a program of study for the following semester and must be supported by the graduate program representative and the student's advisor.

Extension of Time Limit
The master's degree must be completed in five years for programs requiring 30 or fewer credits. For master's programs requiring more than 30 credits, the time limit is seven years. This includes capstone requirements such as a successful thesis defense or passing a comprehensive exam.

The doctoral degree must be completed within ten years of initial enrollment in a doctoral program at UWM. This includes successful completion of all coursework, internships, examinations, the dissertation, and the dissertation defense.

For students entering doctoral program in the fall of 2000 and later, doctoral preliminary examinations must be passed within five years of initial enrollment.

Requests for extending time limits must include all of the following:

1. An explanation for the delay
2. An explanation of how the factors that caused the delay have been resolved, or what steps are being taken to prevent further delays
3. A schedule for completion of the degree, including anticipated semester of graduation. Master's students writing a thesis and all doctoral students requesting time limit extensions should address the following as appropriate:
   - Is literature review complete?
   - Is data collection complete?
   - Is data analysis complete?
   - Number of chapters written
   - Number of chapters read by Major Professor
   - Tentative defense date
4. A supporting statement from the Major Professor verifying progress-to-date

The request also must be supported by the graduate program representative.

Late Add/Registration
Student should state whether he or she has been attending class(es). Instructors should verify attendance or confirm that the student may successfully join the class at this time. A completed Change of Registration form, signed by the course instructor(s), should accompany the Graduate School Request for Exception Form (http://uwm.edu/graduateschool/wp-content/themes/uwmwebid-graduateschool/media/exception-request.pdf). If the exception is approved, the student is responsible for all late fees in addition to the tuition payment.

Late Drop/Withdrawal (Past the Deadline)
This type of request will be considered only for reasons unrelated to academic performance. A completed Change of Registration form, signed by the course instructor (for drops), or a completed withdrawal form should accompany the Request for Exception form. In either case, the course instructor(s) should verify successful completion of course requirements to date. The request also must be supported by the graduate program representative.

Re-entry After Five-Year Absence
Students who want to re-enter a graduate degree program following a 5 year (or greater) absence must be able to demonstrate retention of knowledge from previous coursework taken for the degree. Additionally, instructors must verify that the course content has not changed significantly since the student completed the coursework. Students should list remaining course and degree requirements (e.g., thesis) to be completed for the degree and a timetable for completion. The request must be supported by the student’s advisor, who must verify that the timetable is reasonable, and the graduate program representative.

Other Policy Exceptions
For guidance on required elements to support other types of exceptions, contact the Assistant Dean of Graduate Education at 414-229-6569.

Full-Time Enrollment
Graduate students enrolled for a minimum of 8 credits per semester or 6 credits during a summer session are considered full time, with the exceptions described below. (Fellowship recipients see Fellowship Compliance.)

UWM teaching and project assistants who are employed for one-third (33%) time or more must enroll for a minimum of 6 credits per semester. They are considered full-time with this minimum enrollment. The Graduate School and/or graduate program unit reserves the option to require a higher credit minimum for those who hold Graduate School awards (see Financial Assistance).

During the semester that you are preparing for doctoral prelims, you may enroll for a minimum of 1 graduate credit and still be considered full time for financial aid or grant purposes. This status is available for one semester only, and does not fulfill residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence). To request this option, you must have already submitted your Application for the Doctoral Preliminary Examination.

Doctoral students (including teaching, research, and project assistants) who have reached dissertation status are required to carry 3 dissertation credits.

Grade Definitions and Requirements
Grades with associated grade points

<table>
<thead>
<tr>
<th>Grade</th>
<th>(Points per credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
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<tr>
<td>C+</td>
<td>2.33</td>
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<tr>
<td>C</td>
<td>2.00</td>
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<tr>
<td>C-</td>
<td>1.67</td>
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<tr>
<td>D+</td>
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<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F+, F</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Grade Definitions

- **A**: Superior work
- **B**: Satisfactory, but undistinguished work
- **C**: Work below the standard expected of graduate students
- **D/F**: Unsatisfactory work

Grades without associated grade points

- **K**: Pass
- **E**: Fail
- **S**: Satisfactory
- **U**: Unsatisfactory

Other course status designations

- **I**: Incomplete
- **PI**: Permanent Incomplete
- **Credit**: C- or above in credit/no credit course
- **No Credit**: Below C- in a credit/no credit course
- **NC**: Not Completed (audit courses only)
- **P**: Progress
- **W**: Withdrawal
- **WR**: Administrative drop (enrollment in course violates permitted number of repeats)

Grades or course status outcomes of D+, D-, F+, F, E, I, PI, NC, U, W, and WR may not be used toward meeting degree requirements. The P course status designation must be converted to a grade upon the completion of the course requirements.

**S and U grades**

S and U are the only valid grades for master’s capstone courses, master’s theses, doctoral dissertation courses, and courses for which students register on an audit basis.

**Holds (Service Indicators)**

A hold may be placed on your record for the following reasons:

- An unpaid debt to the University.
- Failure to maintain continuous registration (http://uwm.edu/graduateschool/doctoral-requirements/#dissertator_enrollment) (dissertators only).
- Failure to show proof of insurance (international students only).
- Official transcript required for admission not received.
- Administrative obligation.

A hold on your record prohibits you from registering for classes, obtaining transcripts, or receiving your diploma. In addition, international students with holds cannot have non-immigrant papers processed by the Center for International Education (CIE). You can check for holds on your record using the PAWS Website (http://paws.uwm.edu/).

**Incomplete Policy**

An I (Incomplete) may be assigned by the instructor if you are unable to finish all the course requirements during the original semester of enrollment. An Incomplete course status designation is appropriate only when the following conditions are present:

1. You have done satisfactory work in a substantial fraction of the course requirements prior to grading time and provide the instructor with evidence of potential success in the remaining work.
2. Extraordinary circumstances, not related to performance in the class, such as illness or a family emergency, have prevented you from finishing the course requirements on time.

An Incomplete will not be given to enable you to do additional work to improve a grade. The instructor may deny a request for an Incomplete and assign a grade based on the work completed at that point.

It is your responsibility to initiate a request for an Incomplete. Reasons for requesting the Incomplete must be acceptable to the instructor. If approved, the instructor will indicate the conditions for the removal of the Incomplete, including the date for submitting all remaining work. You are responsible for seeing that the Incomplete is removed by the deadline and that the instructor has reported the grade to the Graduate School.

The instructor may change the I to a grade (including an F) or to a PI (Permanent Incomplete) if the remaining work is not submitted by the deadline for completion.

**Permanent Incomplete**

If you do not complete the remaining work within one year of the end of the term of original registration for the course, the Incomplete will be administratively changed to a Permanent Incomplete (PI). A PI is not computed into the grade point average. The PI will remain on your record, except in cases where you completed the work, but the instructor failed to file a grade change in time.

If you wish to receive credit for a course in which a you received a not completed, you must register for the course again and satisfy the requirements for the course as set forth under the second registration. You may not register for a course in which an I remains on record.

You may graduate with a course status of PI if all degree requirements have been met. All Incompletes must be changed to grades or PIs before you may graduate.

**Major Professor as Advisor**

You must have a major professor from your chosen graduate program unit. Many graduate program units assign a temporary advisor to direct the entering student’s work.

The major professor advises on courses and graduate faculty requirements and supervises research. For the master’s candidate, the major professor is chair of the master’s thesis committee, if a thesis is required. For the doctoral candidate, the major professor serves as the chair of the dissertation committee and of the committee hearing the dissertation defense. All major professors must be members of the UWM Graduate Faculty. Doctoral advisors require approval by the doctoral program unit and the Graduate School.

**Maximum/Minimum Credit Load**

You may not register for more than 12 credits in a semester or 9 credits in the eight-week summer session or a total of 12 credits in all sessions between the end of Semester II and the beginning of Semester I. Audit, sport/recreation, and colloquium seminar credits are not counted when determining a graduate student’s credit load; undergraduate credits are counted.

**Minimum Credit Load**

Every student who uses University resources must be enrolled at UWM. Minimum registration is 1 credit per semester or summer. If you are
a doctoral student with dissertator status, see Doctoral Dissertator Enrollment (http://uwm.edu/graduateschool/doctoral-requirements/#dissertator_enrollment) on the Doctoral Requirements page.

A student undertaking research and/or working on a project, paper, or thesis enrolls at UWM according to the amount of time required for the investigation as determined by the instructor and the major professor. You must be registered during the semester in which your degree is awarded.

**Minnesota/Wisconsin Reciprocity Agreement**

Special Note to Minnesota Residents:
A tuition reciprocity agreement exists between Wisconsin and Minnesota. This agreement stipulates that residents of Minnesota can attend Wisconsin institutions in approved programs and be assessed the approved reciprocity tuition rate, plus segregated fees assessed to all students. If you wish to take advantage of the Minnesota-Wisconsin Tuition Reciprocity Agreement (http://www.ohe.state.mn.us/mPg.cfm?pageID=97), you should apply for certification as a Minnesota resident to:

State of Minnesota Office of Higher Education Reciprocity Program
1450 Energy Park Drive, Suite 350
St. Paul, MN 55108-5227
651-355-0613 or 800-657-3866
www.ohe.state.mn.us (http://www.ohe.state.mn.us/)

You may also contact the UWM Office of the Registrar at (414) 229-3796. A certification year runs from July 1 through June 30.

If you are not certified by the date fees are due, you must pay non-resident tuition and fees; the appropriate amount will be refunded upon certification by the Minnesota Office of Higher Education.

**Minor: Option A (Doctoral Students)**

A doctoral student may be required to supplement the major by completing a minimum of 8 to 12 credits in a single discipline, which designates the minor field. The courses must be planned with the minor professor and identified on the student’s Program of Study. A cumulative GPA of 3.0 must be earned in the minor. The minor examination is administered by the faculty of the minor discipline. Option A minors are identified on the graduate student’s transcript.

**Overloads**

Requests to exceed the maximum credit load are considered under the following circumstances:

- You are taking undergraduate certification coursework.
- You are making up deficiencies.
- You have exceptional circumstances resulting in special hardship.

You must have a cumulative GPA of 3.0 and no outstanding incompletes to be considered for overload approval. You must submit a Request for Exception Form (http://uwm.edu/graduateschool/wp-content/themes/uwmwebid-graduateschool/media/exception-request.pdf) along with recommendations from your major professor and your graduate program representative explaining the reasons and justification for the exception. To be considered, your exception request must be submitted to Graduate Student Services before the enrollment period of the semester in question.

If you enroll for more than the maximum credit load without permission, courses will be dropped to reduce your course load to the maximum allowed.

Only individual student requests are reviewed. Overload requests for groups of students are not considered.

**Permanent Incomplete**

See Incomplete Policy above.

**Re-entering the Graduate School**

If you plan to return to your graduate program after an absence of two or more semesters (excluding summer and UWinteriM sessions), you must apply to re-enter. Following are requirements for re-entering students:

- Completion of a semester’s work within the past five years.
- A cumulative graduate GPA of 3.0.
- Clearance of academic and administrative holds.
- Being within the time limit for degree completion.
- You may also need the approval of your graduate program unit. Check with your unit about its re-entry requirements.

You can apply via the Panthera Admission Application (https://graduateschool-apply.uwm.edu/). A $25 processing fee is required for re-entry.

**Repeating Courses**

You are allowed to repeat a course once in which a grade of B- or lower was earned. Both attempts appear on your transcript and both grades are calculated in the graduate grade point average. Only one attempt may be counted toward meeting degree requirements.

**Time Limit — Master’s**

If your master’s program requires 30 credits or fewer, you must complete all degree requirements within five years of your first enrollment in the program. If your program requires over 30 credits, you must complete all requirements within seven years. Some programs may have shorter time limits.

**Time Limit — Doctoral**

All requirements for the doctoral degree must be completed within 10 years of the date you first enrolled in a doctoral program at UWM. This includes all coursework, the dissertation, and examinations required for the degree. Some programs may have shorter time limits. If you entered your doctoral program in the fall semester of 2000 or after, you have five years from your semester of entry to pass the preliminary examination.

**Transcripts**

Official graduate transcripts and unofficial copies can be obtained in Mitchell 261 or by completing and submitting an official Transcript Request form. To request a copy of your official transcripts complete the online form (https://www.credentials-inc.com/CGI-BIN/dvcgitp.pgm?ALUMTROG03896) and follow the guidelines outlined below.

Effective March 1, 2018 the fee for official transcripts sent through the mail will be $12.

To request an unofficial copy of your transcripts download the unofficial transcript request form (http://uwm.edu/graduateschool/wp-content/themes/uwmwebid-graduateschool/media/transcript-request-form.pdf) and mail it to the address listed on the form. You can also view
your unofficial transcripts through PAWS by following the guidelines below.

Guidelines

2. Transcript requests must come from the student/former student. Requests from a third party will be processed only with written permission from the student/former student.
3. Due to FERPA regulations, the Graduate School cannot send unofficial transcripts electronically.
4. To request unofficial transcript by mail, send completed form.
5. Transcripts will be withheld if any obligations to the University have not been satisfied.
6. Make checks payable to “UWM.” UWM does not accept credit card information by fax.

Please call (414) 229-6569 for more information.

Viewing Unofficial Transcripts Through PAWS

Current students may access unofficial transcripts via PAWS. Directions are as follows:

1. Log into PAWS (https://paws.uwm.edu/psp/saprod/?cmd=login&languageCd=ENG&).
2. Under Academics, navigate to the dropdown menu.
4. Click on the arrow next to dropdown menu 5. Under type, select Graduate Transcript.
5. Click Submit Transcript Request.
6. Check your UWM e-mail for a PDF of your transcript.

Winter Session

UWinteriM is a three-week session held during winter break. A schedule of classes is available during the fall semester. The following rules apply to graduate students:

- UWinteriM enrollment does not affect time-to-degree calculations.
- Graduation deadlines for fall, spring, and summer semesters are unaffected by UWinteriM enrollment. If you complete your degree requirements (e.g., thesis/dissertation defense, master’s comprehensive exam, final course) during UWinteriM, you will graduate in May, but will not have to register during the spring semester.
- UWinteriM classes cannot satisfy enrollment requirements for graduate assistants (RA, TA, PA) or graduate school fellows. Students with teaching assistantships during UWinteriM are not required to register for UWinteriM classes.
- You may not register for more than three credits during UWinteriM.

Withdrawal

Withdrawal is the formal termination of a student’s complete registration in all courses for the semester. To simply stop attending classes does not constitute a withdrawal. Withdrawals are not accepted by telephone. You must fill out a withdrawal form or send a letter by certified mail to give notice to the Graduate School of the withdrawal. The postmark date or the date the withdrawal form is received by the Graduate School becomes the effective date. This date determines the amount of fee/tuition that will be assessed. Check the UWM Website (http://uwm.edu/onestop/dates-and-deadlines/interactive-adddrop-calendar/) for withdrawal deadlines and to determine the effect of withdrawal on your fees.

You may withdraw after the deadline only for reasons other than academic difficulty. You must first submit a Request for Exception (http://uwm.edu/graduateschool/wp-content/themes/uwmwebid-graduateschool/media/exception-request.pdf) to Graduate Student Services. If you request withdrawal for medical reasons, you must supply documentation from a physician.

Withdrawals will be noted on your transcript. Withdrawals after the fourth week of classes remain on your academic record with the course number and title followed by a W symbol.
OPPORTUNITIES AND RESOURCES

- Honors College (p. 37)
- Pathway Advising (p. 38)
- UWM Online (p. 39)
- Accelerated Master’s Degrees (p. 39)
- Catalog Glossary (p. 43)

Honors College

The Honors College is open to qualified undergraduates pursuing a UWM bachelor’s degree. The college offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences. It is particularly appropriate for students who want more engaged and writing-intensive studies or who are preparing for graduate, law, medical, or professional school.

Students who complete the Honors curriculum receive the degree designations “Honors Degree” or “Honors with Distinction” on their diplomas and transcripts.

Administration

Peter Sands, Director
Laura Blaska, Associate Director
Jill Budny, Assistant Director

Admission

Students pursuing their first bachelor’s degree can join the Honors College as freshmen, continuing, or transfer students. Freshmen are admitted based upon a holistic review of their UWM application and high school record. Freshmen are automatically considered once they have been admitted to UWM. Selected students are notified by mail.

Continuing UWM and transfer students should have a cumulative GPA equivalent to their academic standing (see Requirements (p. 37)) and have met the University English requirement by testing out of, or receiving a B- or better, in ENGLISH 102. Interested continuing and transfer students should contact the Honors College to schedule an appointment with an Honors advisor to discuss how the curriculum can be integrated into their academic plans.

Continuing in the Honors College

Honors College students must meet the following cumulative GPA/enrollment criteria:

1. To continue in the Honors College, students must maintain the following minimum grade point averages for work done at UWM by the beginning of their year in school:
   - Freshman (after first semester) 3.0
   - Sophomore 3.3
   - Junior 3.4
   - Senior/to graduate with an Honors degree 3.5
2. Students admitted as new freshmen who need to complete the University English Requirement must complete Honors 200 in the first semester following their completion of the English Requirement.
3. Students who do not take Honors courses for two consecutive semesters will be considered “inactive” and dropped from the Honors College.

Students are encouraged to review the Honors College Handbook (http://uwm.edu/honors/academics/studenthandbooks/) for additional information.

Notification of Ineligible Students

At the end of each semester, the Honors College will review students’ academic records to determine whether they meet the criteria for continuation in the program. The Honors College will notify by mail all students who fail to meet these criteria, stating that they no longer are eligible to enroll in Honors classes. If these students already are enrolled in Honors classes for the next semester, they will be dropped administratively.

Regaining Honors College Eligibility

1. Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.
2. Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.
3. In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

Course of Study

Freshmen and sophomores entering the Honors College must complete HONORS 200, earning a grade of B- or better, before taking other honors courses (except for honors calculus, which can be taken concurrently). Following HONORS 200, which may be repeated once with a change in topic, students with sophomore standing or above may take departmental Honors seminars at 3 credits each.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HONORS 200</td>
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<td>CHEM 381</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 380</td>
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</tr>
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<tr>
<td>HIST 399</td>
<td>Honors Seminar:</td>
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<tr>
<td>HONORS 350</td>
<td>Honors Seminar in the Humanities:</td>
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</tbody>
</table>
Graduating with an Honors Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications. The designation of Honors Degree or Honors with Distinction will be listed on both the diploma and final transcript.

Graduation Ceremony
The Honors College hosts a graduation ceremony each May at the Helene Zelazo Center for the Performing Arts. This event celebrates all Honors College graduates from December, May, and August. Family and friends are welcome to attend. Additional details are available on the Honors College website (https://uwm.edu/honors/academics/graduation/).

Contact Information
Honors College
Honors House, 154
Phone: (414) 229-4658
uwm.edu/honors (http://uwm.edu/honors/)

Pathway Advising
As a temporary home for new freshman students who are undecided about their college major or who are determined through the admission process to need additional support before transitioning into their chosen major, UWM’s Pathway Advising will assist students in academic exploration and decision-making, leading to a permanent affiliation with one of UWM’s Schools and Colleges by the end of the student’s first year. Students in Pathway Advising are empowered and encouraged to form advising relationships, collaborate with faculty and instructional staff, and utilize support services.

Students admitted into Pathway Advising choose one of six exploratory pathways called "metamajors" that allow our students to explore multiple majors that share a general academic theme. Advisors help students select classes in those metamajors that will fulfill both general UWM course requirements and classes that can later count towards the requirements in the students' chosen major(s) and degree plan. Our six metamajors are:

- Arts, Design, & Innovation
- Business, Industry, & Applied Technology
- Engineering & Natural Sciences
- Health
- Humanities & Communication
- Social & Behavioral Sciences

Pathway Advising also provides advising to undecided transfer students entering UWM with fewer than 20 transferable credits and reentry students who were formerly part of the Pathway Advising program or one of its predecessor programs. If you are a transfer or reentry student, please contact the Office of Undergraduate Admissions (https://uwm.edu/undergrad-admission/) to determine the appropriate entry option for you.

We also serve the advising needs of dual enrollment (https://uwm.edu/academicaffairs/dual-enrollment/high-schools/) and Early College Credit Program (ECCP) (https://uwm.edu/academicaffairs/dual-enrollment/uwm-campus-online-eccp/) students, and non-degree (https://uwm.edu/undergrad-admission/student-type/non-degree/) students. In addition, Pathway Advising houses the Student Support Services (SSS) (https://
Accelerated Master's Degrees

Overview

This page describes accelerated master's degrees (AMDs) at UWM. For more information see the UWM academic catalog (https://catalog.uwm.edu/programs/) and the U-Pace online instructional approach has won six national awards.

Our award-winning faculty — the same professors you’ll find leading our classrooms and labs on campus — undergo additional curricular and technology training to make their online instruction as effective as possible. UWM also offers numerous resources designed to ensure your success.

Find more information on the UWM Online web page (http://uwm.edu/online/).

Definitions

Double Counting: counting the same course credit for fulfillment of the requirements of both the bachelor's and the master's degree.

Forward Double-Counted Credit: graduate-level course credit completed as an undergraduate student that, in addition to bachelor's degree credit,

is eligible to fulfill master's degree credit upon student admission to Graduate School.

Backward Double-Counted Credit: graduate course credit completed as a graduate student that is eligible to fulfill remaining undergraduate credits in addition to master's degree credits.

Degree Requirements

Undergraduates complete at least 120 credits for a bachelor's degree. Graduates complete at least 30 credits for a master's degree, and substantially more in some programs. Students in an AMD complete the same requirements by double counting graduate-level credits within the prescribed limits to complete both degrees. All graduate-level work requires students to follow graduate academic standards, regardless of when they take the course. Each AMD may double count differently, and may double count forward, backward, or both. See AMD Programs (p. 39) for double counting details.

UWM Online

As Wisconsin's premier urban research university, UW-Milwaukee offers a wide array of online course offerings at the undergraduate and graduate levels that are available to students each semester, plus more than 30 degrees and certificates (http://catalog.uwm.edu/programs/#filter=filter_27) that can be earned entirely online.

UWM is a nationally known leader in online education: We were ranked best online college in Wisconsin (https://thebestschools.org/online-colleges/#WI) by TheBestSchools.org, and our U-Pace online instructional approach has won six national awards.

Our award-winning faculty — the same professors you’ll find leading our classrooms and labs on campus — undergo additional curricular and technology training to make their online instruction as effective as possible. UWM also offers numerous resources designed to ensure your success.

Find more information on the UWM Online web page (http://uwm.edu/online/).

Programs

Approved AMDs below involve one UWM undergraduate degree and one UWM graduate degree. Eligible double-counted credits, undergraduate requirements, and graduate school admission requirements are listed under each AMD as defined by the program. Approved AMDs are listed in alphabetical order by bachelor's degree. When viewing online, use the " > " next to each AMD degree pair to expand the view.

Accounting, BBA (p. 255)/Information Technology Management, MS (p. 285)

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Anthropology, BA (p. 729)/Anthropology, MS (p. 735)

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Community Engagement and Education, BS (p. 329)/Educational Psychology, MS: Cognitive and Developmental Sciences (p. 350)

The Accelerated Master's Degree will utilize 6 forward double-counted and 15 backward double-counted credits for a total of 21 double-counted credits.

Double-Counted Credits:

ED PSY CDS elective courses taken during the undergraduate career must be taken at the graduate (G) level to count forward toward the graduate career. These courses will count toward the ED PSY CDS elective course requirement and also fulfill elective credits in the CEED undergraduate major.

Elective courses in ED PSY CDS are selected in close consultation with the faculty advisor such that they can be tailored to the student's MS degree progression. Course selection must be approved by the advisor and program to move the student toward mastery of the CDS standards, from: ED PSY 728, ED PSY 734, ED PSY 735, ED PSY 741, ED PSY 742, ED PSY 743, ED PSY 746, ED PSY 748, ED PSY 831, ED PSY 831, and ED PSY 834.

ED PSY CDS Concentration courses taken during the graduate career that count backward toward the undergraduate career ED PSY 640,
ED PSY 624, and electives from ED PSY 728, ED PSY 734, ED PSY 735, ED PSY 741, ED PSY 742, ED PSY 743, ED PSY 746, ED PSY 747, ED PSY 748, ED PSY 831, ED PSY 833, and ED PSY 834.

Undergraduate Selection Criteria
Ideally, students will declare their intention to complete an accelerated degree as incoming freshmen; however, continuing and transfer students may also pursue the accelerated degree. Interested students must meet with an academic advisor to determine if it is possible to complete all of the requirements in the portion of undergraduate study remaining to them. If there is not a logistical constraint, the student then must write a 1-2 page statement explaining their interest in the particular field of study as reasons for pursuing an accelerated degree. The student should include a copy of their college transcript with this statement and a recommendation letter from a faculty member in the chosen field. These materials should be submitted to the intake administrator (Office of Student Services) who will then notify the ED POL chairperson, the CDS accelerated programs coordinator, and the student's undergraduate advisor. Both the CEED and CDS programs must agree to accept the student into the accelerated degree track.

Graduate Admissions Requirements
To be considered for admission into Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the MS in Educational Psychology and the UWM Graduate School.

Because the ED PSY CDS programs coordinator will be involved in monitoring undergraduate student progress of individuals pursuing an accelerated degree, the ED PSY CDS program will permit guaranteed acceptance in the M.S. program if the student meets the minimum criteria for admission established by the UWM Graduate School.

Students who do not satisfactorily meet admissions criteria for the MS in Educational Psychology may continue with their BS in Community Education and Engagement.

Criminal Justice, BS (p. 1293)/Criminal Justice, MS (p. 1295)
The MS in Criminal Justice has 33 credits. The Accelerated Master's Degree in Criminal Justice will utilize 6 forward double counted and 15 backward double counted credits.

Double Counted Coursework
Courses that forward count to graduate career:

These courses fulfill the electives requirements of the Master's degree.

Courses that backward count to undergraduate career:
- CRM JST 850, CRM JST 910, CRM JST 920, CRM JST 970
- CRM JST 970 (special topics) can only be taken if the student has not already taken the topic as an undergraduate elective (i.e. Criminal Evidence and Investigation, Violence and the Criminal Justice System).
- CRM JST 671G would count as a major requirement. The other courses could count as either a major elective or general elective.

Undergraduate Career
The Criminal Justice and Criminology Department's graduate program coordinator and undergraduate academic advisors from the Helen Bader School of Social Welfare will be responsible for advising students in the accelerated program. For enrollment in graduate level courses during an undergraduate career that may be forward double counted toward the MS in Criminal Justice, the Accelerated Master's Degree in Criminal Justice requires students meet the following additional criteria:

- a student must maintain an overall GPA of at least 3.0 and a GPA of at least 3.25 in the major area of study
- junior standing (58+ credits)
- prior completion of CRM JST 110, CRM JST 271, CRM JST 273, CRM JST 275, CRM JST 305 courses

Approved enrollment into graduate level coursework during an undergraduate career does not guarantee admission to the MS in Criminal Justice as part of the Accelerated Master's Degree. These courses fulfill requirements for the BS in Criminal Justice regardless of acceptance into Graduate School. Students apply for Graduate School as indicated below. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a Master's degree.

Application to Graduate School
Admission to the MS in Criminal Justice as part of the Accelerated Master's Degree is guaranteed. Students typically apply by February of the junior year. To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must do the following:

- Meet the standard UWM Graduate School admission requirements (except for the completion of a Bachelor's degree).
- Meet the standard application requirements for a MS in Criminal Justice.

Students admitted to the MS in Criminal Justice as part of the Accelerated Master's Degree will begin their graduate career in their 8th semester, after the completion of at least 105 credits toward the BS in Criminal Justice. The remaining (15) credits to complete the BS in Criminal Justice may be fulfilled through backward double counting graduate coursework (as described above). There may be one or two semesters where students are taking a mix of undergraduate and graduate courses to complete the BS in Criminal Justice while earning their MS in Criminal Justice.

Students who do not satisfactorily meet admissions criteria for the MS in Criminal Justice are eligible to continue with their BS in Criminal Justice major, provided they continue to meet those standards.

Economics, BA (p. 844)/Economics, MA (p. 848)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for publishing copy from governance documents. See program directly for details.

Exceptional Education, BS: K4-12 Special Education (p. 420)/Exceptional Education, MS (p. 423)
Double-Counted Credits:
Forward-counted courses taken during the undergraduate career must be taken at the graduate (G) level to count forward toward the graduate
career. Two of the following three courses should be taken at the graduate level: EXCEDUC 532G, EXCEDUC 601G, EXCEDUC 679G.

Backward-counted courses taken during the graduate career that count backward toward the undergraduate career: EXCEDUC 488G, EXCEDUC 588G, EXCEDUC 574G.

Students who elect to earn a bachelor's degree in Exceptional Education without teacher certification in special education may take any of the following courses for the 13 backward-counting credits in their graduate career: EXCEDUC 560, EXCEDUC 561, EXCEDUC 569, EXCEDUC 703, EXCEDUC 705, EXCEDUC 707, AD LDSP 598, AD LDSP 861, SOC WRK 774, and SOC WRK 775.

**Undergraduate Career**

The Academic advisors from the School of Education will identify, track, and advise undergraduates who have declared an intent to pursue an accelerated master’s degree. Students apply to the undergraduate Bachelor’s Degree in Exceptional Education and teacher certification program in special education during their 2nd or 3rd year (typically), and subsequent to admission complete 4 semesters of professional coursework.

The following items must be met prior to applying for formal admission to the undergraduate Bachelor's Degree in Exceptional Education and teacher certification program in special education:

- At least 45 credits with a GPA of 2.5
- Grade of "C" or better in MATH 175 (or equivalent) and ENGLISH 102 (or equivalent)
- Grade of "C" or better in CURRINS 300 (Intro to Teaching) and a positive field evaluation or equivalent (e.g., recommendation from instructor)

Students indicate their intent to apply to the Accelerated Master's Degree program after their 2nd semester of professional coursework in the undergraduate Bachelor’s Degree in Exceptional Education and teacher certification program in special education during their 2nd or 3rd year (typically), and subsequent to admission complete 4 semesters of professional coursework. This allows them to be eligible to take graduate level courses during their undergraduate career in the 3rd semester of professional coursework, and students must meet the following criteria:

- meet the minimum GPA requirements for admission to the Graduate School at the time of enrollment in graduate level U/G or G coursework
- a minimum GPA of 3.0 on all work in the professional program
- declare their intent to apply for an accelerated master's program
- complete service and/or undergraduate research in special education or a related field
- write and submit a 2 page (approximately) personal statement that explains: the students’ interest in a particular field of study, an appropriate faculty mentor tied to their interests, and reasons for desiring to enter the accelerated program
- submit 2 letters of recommendation from professionals who can speak to the applicant’s analytical thinking, intellectual curiosity, and ability to manage an increased workload
- receive a positive recommendation from the teacher certification program faculty, following an interview with the faculty
- complete the same academic work and follow the same performance standards as graduate students in the Exceptional Education master’s program

Approved enrollment into graduate level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Master’s Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

**Graduate Admissions Requirements**

Admission to Graduate School prior to completion of a bachelor's degree as part of the Accelerated Master’s Degree in Exceptional Education is selective, and students must meet the standard UWM Graduate School admission requirements.

Students who do not satisfactorily meet admissions criteria for Graduate School are eligible to continue with their bachelor’s degree, provided they continue to meet undergraduate standards.

**Finance, BBA (p. 274)/Information Technology Management, MS (p. 285)**

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

**Finance, BBA (p. 274)/Management, MS: Finance Analysis (p. 291)**

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

**French, BA (p. 926)/Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (p. 1032)**

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

**Human Resources Management, BBA (p. 279)/Information Technology Management, MS (p. 285)**

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

**Information Technology Management, BBA (p. 282)/Information Technology Management, MS (p. 285)**

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

**Kinesiology, BS (p. 632)/Athletic Training, MS (p. 630)**

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.
Marketing, BBA (p. 296)/Information Technology Management, MS (p. 285)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Marketing, BBA (p. 296)/Management, MS: Marketing (p. 292)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Public Health, BS (p. 1267)/Public Health, MPH: Community and Behavioral Health Promotion (p. 1276)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Public Health, BS (p. 1267)/Public Health, MPH: Environmental Health Sciences (p. 1278)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Public Health, BS (p. 1267)/Public Health, MPH: Epidemiology (p. 1281)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Public Health, BS (p. 1267)/Public Health, MPH: Public Health Policy and Administration (p. 1283)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

Supply Chain and Operations Management, BBA (p. 305)/Information Technology Management, MS (p. 285)
This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

External Programs
AMDs between external college or university programs and UWM are described in their Articulation Agreements. Contact those programs directly.

Bachelor’s Degree
Undergraduate Requirements
Typically, students complete their general education requirements, school or college general requirements, and most of their major requirements prior to beginning any double-counted coursework. Students remain in undergraduate status to complete all required bachelor’s degree credits (typically 120, potentially more) minus eligible backward double-counted credits. Remaining undergraduate credit requirements fulfilled through backward double counting is specified by the program and will be completed as a graduate student.

Individual AMDs may have additional requirements for degree completion (see Programs tab (p. 39)). Some programs do not prescribe backward double-counted credit. In this case, the student would complete all undergraduate requirements and receive their bachelor’s degree prior to their first term as a graduate student.

Forward Double-Counted Credits
Some AMDs prescribe forward double-counted credits so undergraduate students can begin graduate coursework eligible for both their bachelor’s and master’s degrees. Undergraduates must meet the minimum GPA requirements for the Graduate School before attempting graduate-level work. Programs provide additional requirements for enrolling in eligible graduate-level coursework. Enrollment in graduate-level coursework during an undergraduate career does not guarantee admission to the Graduate School. All graduate-level work requires completion of graduate academic standards. Students accruing forward double-countable credits remain in undergraduate standing, pay undergraduate tuition for graduate-level courses, and are eligible for undergraduate federal financial aid. For a U/G course, students must enroll in and complete the G section in order for it to forward double count.

Opting Out of the AMD As an Undergraduate Student
Students in undergraduate status who choose not pursue a master’s degree may continue with their bachelor’s degree and complete any remaining bachelor’s degree credits as an undergraduate student. The student will need to decline their acceptance to Graduate School, and alert their graduate program.

Master’s Degree
Graduate School Admission
For AMDs that prescribe backward double-counted credits, students will begin Graduate School prior to completing their bachelor’s degree. To be considered for admission to the Graduate School prior to completing their bachelor’s degree, students must meet the UWM Graduate School admission criteria (https://uwm.edu/graduateschool/admission/), any additional standards set by the program, and have completed required bachelor’s degree credits minus eligible backward double-counted credits prior to their first term as a graduate student. (For example, if the bachelor’s degree requires 120 credits and the AMD allows for 15 backward double-counted credits, the student must have 105 undergraduate credits before starting their first term as a graduate student.)

For AMDs that do not prescribe backward double-counted credit, students would have completed their bachelor’s degree prior to their first term as a graduate student and still must meet the UWM Graduate School admission criteria and any additional standards set by the program.

Failure to Gain Admission to Graduate School
A student who applies to but is not admitted to the Graduate School as an accelerated master’s student may continue with the bachelor’s degree and can reapply for graduate admission after completing the bachelor’s degree.

Graduate Requirements
Once accepted, students begin graduate student status the semester in which they only have backward double-counted credits remaining to complete the bachelor’s degree. Students carry the same graduate
student status as those admitted with a bachelor's degree and are eligible for all graduate student financial assistance, including appointments as TAs, PAs, and RAs. Students pay tuition at the graduate rate. All students completing graduate-level work are subject to the same performance requirements.

All accelerated master's degree students must submit an Accelerated Master's Credit Evaluation Form (https://uwm.edu/graduateschool/wp-content/uploads/sites/90/2020/05/Accelerated-Masters-Credit-Evaluation-Form.pdf) in the first semester of their graduate career, even if they have no forward double-counted credits. The Graduate School will evaluate graduate-level work from the undergraduate portion of the AMD or verify that the student has no forward double-counted credits.

**Opting Out of the AMD After Starting Graduate School**
The Graduate School typically requires a bachelor's degree for admission, but makes an exception to this rule for students in an approved AMD. Graduate students who choose to opt out of their AMD program and have not yet completed all bachelor's degree requirements through backward double counting can no longer maintain graduate student status. These students will alert their graduate program and can opt back into undergraduate student status in order to complete undergraduate coursework and finish their bachelor's degree. If such students have maintained enrollment at UWM in graduate school up to that point in time, they would not need to complete a re-entry application with Undergraduate Admissions.

**Degree Completion**
**Credit Transfer**

**Forward Double-Counted Credit Transfer**
AMD students submit an Accelerated Master's Credit Evaluation Form (https://uwm.edu/graduateschool/wp-content/uploads/sites/90/2020/05/Accelerated-Masters-Credit-Evaluation-Form.pdf) in the first semester of their graduate career. The Graduate School will evaluate graduate-level work from the undergraduate portion of the AMD. Coursework eligibility is determined by the program and subject to UWM Graduate School transfer credit standards. Once forward double-counted graduate-level credit has been transferred into the master's degree, it is available for other forms of double counting, such as that permitted between master's degrees and certificates.

**Backward Double-Counted Credit Transfer**
Once students enter graduate status, they are eligible to take backward double-counted courses. Coursework eligibility is determined by the program. Backward double-counted credit will be transferred to the undergraduate transcript once the student completes all required undergraduate credit and applies for graduation.

**Bachelor's Degree**
Upon completion of the courses and credits required for the bachelor's degree, the student should apply for graduation in the undergraduate degree program. Upon receipt of the application for graduation, the Registrar’s Office will transfer the credits completed at the graduate level into the undergraduate record to facilitate the review of the student for undergraduate degree clearance. Degree clearance procedures at the undergraduate level will follow established procedures once the graduate credit is transferred to the undergraduate record.

**Master's Degree**
Students graduate with the master's degree when they have completed all requirements in addition to any forward double-counted credits. This may occur during the same semester when the bachelor's degree is awarded, or in a later semester.

**Catalog Glossary**
**Key to Course Numbering System**

100-299 Lower division courses not open to graduate students for credit.

300-699 Upper division courses that may, if so designated, carry graduate credit. Courses with level "U" are offered for undergraduate credit only; courses with level "U/G" may be offered for undergraduate and/or graduate credit. Insofar as a course approved for graduate credit may not be offered for graduate credit in a given semester, the current schedule of classes (https://catalog.uwm.edu/course-search/) should be consulted. Junior standing is normally a minimum prerequisite for 300-699 courses that carry graduate credit.

700-999 Graduate level courses not open to undergraduate students for credit.

**Abbreviations in Course Descriptions**

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<td>Concurrent Registration</td>
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<td>Consent of Department Chair</td>
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**Prerequisite Course Definitions**

R-Recommended Course: A course that the instructor strongly recommends be taken prior to enrollment in a subsequent course.

Ex.: ANTHRO 334 American Indians of the Southwest . . . Prereq: ANTHRO 314 (R). ANTHRO 314 is recommended for students enrolling in ANTHRO 334.

P-Prerequisite: A course in which a student is required to earn credit prior to being allowed to enroll in a subsequent higher level course. A prerequisite course may not be taken for credit subsequent to the earning of credit in the higher level course.
Ex.: PSYCH 205 Personality . . . Prereq: PSYCH 101 (P). Students must earn credit in PSYCH 101 before enrolling in PSYCH 205, and may not receive credit for PSYCH 101 after enrolling in PSYCH 205.

**NP-Nonrepeatable Prerequisite:** A prerequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: COMPSCI 252 Computer Programming II . . . Prereq: COMPSCI 152 (NP). Students may not repeat COMPSCI 152 for the purpose of receiving a higher grade after enrolling in COMPSCI 252.

**C-Corequisite:** A course that may be taken as either a prerequisite or as a concurrent registration with the higher level course.

Ex.: BUS ADM 210 Introduction to Management Statistics . . . Prereq: MATH 211 (C) or MATH 231 (C). Students must enroll in MATH 211 or 231 either prior to or at the same time as they enroll in BUS ADM 210.

**NC-Nonrepeatable Corequisite:** A corequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: HLTHMNT 232 Nursing Practice for Health Promotion . . . Prereq: admission to enroll in clinical nursing major; HLTHMNT 210 (NC), 211 (NC); FNDNURS 230 (NC); HLTHRST 320 (NC). Students must enroll in the four listed (NC) courses either prior to or at the same time as they enroll in HLTHMNT 232. They may not repeat any of these four courses for the purpose of receiving a higher grade after enrolling in HLTHMNT 232.

**ER-Enrollment Restriction:** A course that is not open for enrollment to students who have earned credits in a specified course (or courses) with similar or overlapping content.

Ex.: ECON 100-after cr is earned in ECON 103 or 104.

A course number followed by another number in parentheses means that the course was previously offered under the number in parentheses. The two courses are the same course and the repeat policy applies.

Ex.: HUM KIN 270 (370) - HUM KIN 270 is the same course as HUM KIN 370. A student with credit in HUM KIN 370 may enroll in 270 as a repeat unless 370 was taken more than once.
ARCHITECTURE AND URBAN PLANNING (SCHOOL OF)

The School of Architecture and Urban Planning (SARUP) at UWM offers the only professional program in architecture in Wisconsin that is accredited by the National Architectural Accrediting Board; one of the two graduate planning programs in the state accredited by the Planning Accreditation Board (PAB) of the American Planning Association; and one of very few doctoral programs in architecture in the United States. SARUP offers a four-year Bachelor of Science in Architectural Studies (BSAS) undergraduate pre-professional degree that prepares students for professional, masters-level training in architecture and other design fields. As the urban center of the state with strong ethnic communities, Milwaukee makes an appropriate setting for the study of architecture and urban planning.

In addition to the degrees listed above, SARUP offers a Master of Architecture/Master of Urban Planning, a coordinated professional degree program designed for persons seeking integrated study in both areas. A non-professional Master of Science in Architecture is available for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. A PhD in Architecture is offered for persons who seek careers in research and teaching in architecture and allied fields, in consulting, or in roles in government and professional practice requiring advanced skills and research experience.

Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board:

1. the Bachelor of Architecture, which requires a minimum of five years of study, and
2. the Master of Architecture, which requires a minimum of three years of study following an unrelated bachelor's degree or two years following a related pre-professional bachelor's degree.

These professional degrees are structured to educate those who aspire to registration/licensure as architects.

The four-year, pre-professional degree, where offered, is not accredited by NAAB. The pre-professional degree is useful for those wishing a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.

Departments and Programs

- Architecture (p. 46)
  - Architectural Studies, BS (p. 47)
  - Architectural Studies, Minor (p. 50)
  - Architecture, MArch (p. 51)
  - Architecture, MArch/Urban Planning, MUP (p. 52)
  - Architecture, MArch: Ecological Design (p. 53)
  - Architecture, MArch: Preservation Studies (p. 55)
  - Architecture, MArch: Real Estate Development (p. 57)
  - Architecture, MS (p. 59)
  - Architecture, PhD (p. 60)
- Urban Planning (p. 62)
- Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning) (p. 63)
- Urban Planning, MUP (p. 65)
- Urban Planning, MUP/Architecture, MArch (p. 66)
- Urban Planning, MUP/Engineering, MS (p. 67)
- Urban Planning, MUP/Public Administration, MPA (p. 68)
- Urban Planning, MUP Geographic Information Systems (p. 69)
- Urban Planning, MUP Real Estate Development (p. 71)
- Urban Planning, Undergraduate Certificate (p. 73)

Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Department of Architecture Computer Requirement

Effective Fall 2019, all students entering the Bachelor of Science in Architecture Studies (BSAS) program and the Master of Architecture (M.Arch) program are required to purchase a design-capable laptop computer and software. The laptop must be equipped to enable students to effectively perform all required coursework until the completion of the BSAS or M.Arch degree. For additional information, please see requirements posted on the Department of Architecture Laptop Requirement webpage (https://uwm.edu/sarup/architecture/laptop-requirement/).

Administration

Nancy Frank
Interim Dean

Karl Wallick
Associate Dean

Joan Simuncak
Assistant Dean, Student Affairs
Graduate Advisor

Tammy Taylor
Undergraduate Administrator/Advisor, Student Affairs

Contact Information

School of Architecture and Urban Planning
Architecture and Urban Planning Building, 225
2131 E. Hartford Avenue
Milwaukee, WI 53201

Phone: (414) 229-4015
Phone: (414) 229-4014
sarup-ugrad@uwm.edu
sarup-grad@uwm.edu
Accomplished and dedicated faculty, staff, and alumni work tirelessly to mentor. Students in the School of Architecture and Urban Planning (SARUP) are passionate about architecture, and have the benefit of attending a building together and how to derive formal poetics from constructive assembly. This strong commitment to conventional tectonics is complemented and challenged by many avenues of experimentation and research that confront professional norms. Elective courses propose alternative practices and theories for architecture by speculating on thermodynamic form, cultural geography, performative envelopes, digital prototyping, and new ecological and programmatic compositions for water management. Sponsored studios leverage expertise from the professional community in unique partnerships that benefit students and also have an impact on the community and region—in many cases through constructed works.

Maximum curriculum choice is considered a hallmark of the architecture curriculum at UWM. After completing the core educational requirements, students are able to construct an educational path from a wide array of elective seminars, independent study, research opportunities, and studios that best suit their personal values and aspirations. Our goal is for students to be committed to architecture as a form of disciplinary inquiry that is compositionally ambitious, technically provocative, and to continually reinvent professional ethics and beauty.

Students in the School of Architecture and Urban Planning (SARUP) are passionate about architecture, and have the benefit of attending an affordable, small, and strong school in a culturally vibrant city. Accomplished and dedicated faculty, staff, and alumni work tirelessly to provide personalized attention and guidance to the students they are mentoring.

- Architectural Studies, BS (p. 47)
- Architectural Studies, Minor (p. 50)
- Architecture, MArch (p. 51)
- Architecture, MArch/Urban Planning, MUP (p. 52)
- Architecture, MArch: Ecological Design (p. 53)

Limitations

The Department reserves the right to cap admissions into the minor on the basis of course availability. Students in the major have first priority registration for all courses in the Department. In cases of full capacity, students enrolled in the minor will be ranked and admitted into the program or into a course on the basis of overall GPA.

For more information about requirements for the minor, contact Tammy Taylor, Undergraduate Advisor, School of Architecture and Urban Planning, AUP 225, ttaylor@uwm.edu, (414) 229-4015.

Accident and Health Insurance

Use of the School’s woodworking shop requires that students provide evidence of personal accident and health insurance to the School of Architecture and Urban Planning Dean’s Office.

Department of Architecture Laptop Requirement

Beginning in Fall 2019, each incoming freshman in the Bachelor of Science in Architecture (BSAS) program and each incoming student in the Master of Architecture (MArch) program will be required to purchase a laptop computer that meets or exceeds the Department of Architecture’s hardware and software specifications as published on the School’s website for the year the student enters the program. Beginning in Fall 2020, each incoming transfer student will be required to purchase a laptop computer. Students graduating from the BSAS program will be required to update or renew their laptop to conform to the School’s specifications upon entry into the MArch program.

Laptop specifications can be found here. (https://uwm.edu/sarup/architecture/laptop-requirement/)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Sherry Ahrentzen</td>
<td>Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td></td>
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</tr>
<tr>
<td>Jasmine Benyamin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Princeton University</td>
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<tr>
<td>Nikole Bouchard</td>
<td>Assistant Professor</td>
<td>MArch</td>
<td>University of Virginia</td>
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<td>Uriel Cohen</td>
<td>Professor</td>
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<td>Chris T. Cornelius</td>
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<td>Kevin Forseth</td>
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<td>Robert Greenstreet</td>
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<td>Donald L. Hanlon</td>
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<td>Nancy Hubbard</td>
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<td>Thomas C. Hubka</td>
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<td>Raymond Isaacs</td>
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<td>Frederick Jules</td>
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<td>Mark Keane</td>
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<td>Linda R. Krause</td>
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<tr>
<td>Whitney Moon</td>
<td>Assistant Professor</td>
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<td>University of California - Los Angeles</td>
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</tbody>
</table>

uwm.edu/sarup (http://uwm.edu/sarup/)

Architecture

The Department of Architecture remains steadfastly committed to a tectonic conception of architectural practice. Students learn how to put assembled works through constructed works. Maximum curriculum choice is considered a hallmark of the architecture curriculum at UWM. After completing the core educational requirements, students are able to construct an educational path from a wide array of elective seminars, independent study, research opportunities, and studios that best suit their personal values and aspirations. Our goal is for students to be committed to architecture as a form of disciplinary inquiry that is compositionally ambitious, technically provocative, and to continually reinvent professional ethics and beauty.

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- Architectural Studies, Minor (p. 50)
- Architecture, MArch (p. 51)
- Architecture, MArch/Urban Planning, MUP (p. 52)
- Architecture, MArch: Ecological Design (p. 53)
Architectural Studies, BS

The Bachelor of Science, Architectural Studies (BSAS) is a four-year undergraduate pre-professional program that prepares students for graduate studies in architecture and related design and construction fields. The primary goal of the BSAS program is to introduce students to architecture as both a technical and cultural practice. Students accrue skills in architectural thinking, design, visualization, fabrication, prototyping and simulation. The program lays a foundation of unique problem-solving skills empowering students to change the world.

The four-year BSAS program is comprised of a three-year core, followed by one year of specialized and individualized study. Over the course of their studies, BSAS students enroll in a variety of design studios, lectures and seminars to accrue skills in architectural making, thinking, design, visualization, digital fabrication, prototyping, and simulation. In addition to learning essential analytical and creative-problem solving skills through design, students are required to complete courses in architectural systems (structures, construction and environmental/building technology), behavioral, social and cultural factors in design, and the role of criticism in contemporary architecture and urbanism. In their fourth year, students select from a wide range of architectural electives and advanced studios, allowing them the opportunity to craft a curriculum based on their areas of interest.

Graduates of the BSAS program can continue their studies at the UW-Milwaukee School of Architecture and Urban Planning by applying to the Master of Architecture (M.Arch) (p. 51), Master of Science in Architecture (M.S.) (p. 59), or Master of Urban Planning (MUP) (p. 65) program.

Admission Standards

New Freshmen

New freshman admission to the School of Architecture and Urban Planning is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the ACT or SAT. For preferential consideration, applications (including ACT or SAT scores) must be completed no later than March 1 (for summer/fall term) or December 1 (for spring term). Applications not complete by the priority date or not meeting these admission criteria will be considered on a space-available basis.

See general freshman admission requirements (p. 16) of the University for additional information.

Academically qualified international student applicants must have a TOEFL score of at least 79 (iBT) or IELTS score of 6.0, or may be admitted following successful completion of the Intensive English Program at UWM, as demonstrated by an appropriate TOEFL score.

Transfer Students

Transfer students are admitted on a selective basis. Preference is given to students whose applications are completed, including all required supporting documents, no later than April 1 (for the following summer/
BSAS Committee for advanced standing. Students must show that prior
ARCH 102 have taken the equivalent of the Level 1 program of study (Transfer students for admission into Enrollment priority is given to students with the highest cumulative GPAs Department of Architecture. Admission to the University does not guarantee acceptance by the guarantee admission to Level 2. The academic quality of the student's or their equivalent). Because enrollment is contingent upon available
ARCH 100, ARCH 102, ARCH 103, and ARCH 104, or their equivalent). Because enrollment is contingent upon available staffing and facilities, satisfaction of the minimum requirements does not guarantee admission to Level 2. The academic quality of the student’s Level 1 studies are carefully reviewed by the School’s BSAS Committee. Admission to the University does not guarantee acceptance by the Department of Architecture.

Enrollment priority is given to students with the highest cumulative GPAs for admission into ARCH 310, the first introductory core studio in Level 2.

Transfer students applying to Level 2 must demonstrate that they have taken the equivalent of the Level 1 program of study (ARCH 100, ARCH 102, ARCH 103, and ARCH 104).

Advanced students transferring from another architectural or related program (design, engineering, landscape architecture) may petition the BSAS Committee for advanced standing. Students must show that prior coursework parallels coursework in the Level 2 program. A minimum of two semesters of work, consisting of at least 24 credits in total, must be completed in residency for the bachelor’s degree.

**BSAS Requirements**

The minimum credits needed to graduate from this program is 120. Completion of this degree does not guarantee admission to graduate programs in architecture at UWM.

For the BSAS degree, at least the last 24 credits must be earned in residency at UWM. The minimum cumulative GPA required for all UWM credits and for all architecture credits attempted is 2.5.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Level 1 Architecture Courses (first year) 1</td>
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<tr>
<td>ARCH 100</td>
<td>Architectural Making I</td>
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<td>ARCH 102</td>
<td>Architectural Thinking I</td>
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<td>ARCH 103</td>
<td>Architectural Making II</td>
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<td>Competency Requirements</td>
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<td>English:</td>
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<tr>
<td>Oral and Written Communication Competency - Part A: Complete ENGLISH 102 with a grade of C or higher or place beyond ENGLISH 102 on the English Placement Exam (EPT) or other appropriate test, as determined by the English Department</td>
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<td>Mathematics:</td>
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<td>Quantitative Literacy Competency - Part A: Placement code of a 40 on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department</td>
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<td>PHYSICS 100</td>
<td>Quantitative Preparation for Physics</td>
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<td>PHYSICS 107</td>
<td>Physics in Everyday Life</td>
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<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
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<td>Foreign Language</td>
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<tr>
<td>Complete two years of a single foreign language in high school</td>
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<tr>
<td>Complete two semesters of a single foreign language in college</td>
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<td>Demonstrate ability by examination</td>
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<td>Directed Electives 3,4</td>
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<tr>
<td>Arts</td>
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<td>Humanities</td>
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<td>Social Sciences</td>
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<td>Natural Sciences, to include a lab</td>
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<td>Level 2 Introductory Core Studios (second year)</td>
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<td>ARCH 310</td>
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<td>ARCH 320</td>
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<tr>
<td>Level 2 Core Studios (third year)</td>
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<td>ARCH 410</td>
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</table>
**Level 1 (Pre-Architecture)**

Freshman year should be taken at UWM. If taken at another institution whose credits are accepted for transfer by UWM, the student is expected to achieve equivalent background and skills. Significant differences in courses will require that additional coursework be completed prior to Level 2 admission.

**Level 2 (Architectural Studies)**

Sophomore, junior, and senior years, taken in the Department of Architecture. This period provides a general introduction to the problems and techniques of architectural design. Students who are accepted into Level 2 and complete the program receive the Bachelor of Science in Architectural Studies. This is not an accredited professional degree. It can provide, however, a foundation for employment as a non-professional in architecture or in fields related to architecture, construction, design, and planning, or for graduate study in architecture or in other disciplines concerned with the physical environment.

### Year 1

#### Semester 1

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<td>ARCH 104</td>
<td>Architectural Thinking II</td>
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<td>MATH 117</td>
<td>Trigonometry</td>
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### Year 2

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<td>Fundamentals of Architectural Design I</td>
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<td>Contemporary Criticism and Urbanism</td>
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<td>ARCH 650</td>
<td>Intermediate Design Studio: (Studio Option)</td>
<td>6</td>
</tr>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 120-121
Elective studios are a form of creative project-based research. Elective seminars and workshops are 3-credit classes investigating architectural issues through critical reading, thorough research, student discussions, and scholarly production.

### Honors and High Honors in the Major

Honors in the Major are granted to students who have earned a GPA of 3.500 or above for courses in the major and 3.250 GPA on the last 60 credits taken in residence at UWM (Level 2).

High Honors in the Major are granted to students who have earned a GPA of 3.750 or above for courses in the major and 3.500 GPA on the last 60 credits taken in residence at UWM (Level 2).

Dean’s Honors are granted to graduating seniors with the two highest cum GPAs (Level 2).

### Honors in the School of Architecture and Urban Planning

#### Dean's Honor List

GPA of 3.750 or above (Levels 1, 2), earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits:

- Cum Laude - 3.500 or above
- Magna Cum Laude - 3.650 or above
- Summa Cum Laude - 3.800 or above

The Department of Architecture provides the following opportunities for students and faculty to develop coursework with a special focus.

The **Independent Studies** course (ARCH 392) rewards students with credits for worthwhile activities originated by the students, such as special reading or research programs, community service, or independent design projects. To be eligible, students in the Department of Architecture must have completed one semester of work and must have a cumulative GPA of at least 3.0 in their work in the Department. Students in other UWM departments must have the permission of their own departments and the Department of Architecture.

The **Directed Research** course (ARCH 391) offers an opportunity for students to participate in current research projects of architecture faculty. Eligibility and approval for registration are at the discretion of the faculty members in charge of the projects.

The **Special Topics** course (ARCH 390) permits individual faculty members to develop special subjects on a one-semester basis. Special Topics courses are announced at registration for the following semester.

The Department has developed a semester-long Study Abroad Program that allows students to combine foreign travel and study under the tutelage of one or more departmental faculty member(s). The location of the program may vary from year to year. Admission to the program is selective, based on the student’s previous academic performance.

### Architectural Studies, Minor

The Minor in Architectural Studies is designed for students not enrolled in the Architectural Studies major who are interested in a unique opportunity to stimulate their imagination and learn creative approaches to problem solving. This program will complement their current academic program with an in-depth understanding of architecture. The coursework exposes students to the fundamental principles that integrate design thinking with human behavior. Some students may wish to use the minor as a means of investigating possible graduate studies in architecture and some way wish to develop architectural specialties with other disciplines.

#### Requirements

Students who choose the Minor in Architectural Studies must have a declared major in another school or college at UWM and must have a minimum of a 2.5 grade point average.

The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken in residence at UWM. All credits in the minor must be completed with an overall grade point average of at least 2.5, and no courses may be taken on a credit/no credit basis.

#### Admission to the Minor

Admission to the minor will be processed by the School of Architecture and Urban Planning Student Advising Office (AUP 225). To declare the Architectural Studies minor, students should schedule an appointment with Tammy Taylor, Undergraduate Advisor, (414) 229-4015.

#### Course of Study

Students who choose the minor in Architectural Studies must have a declared major in another school or college at a UW-System school and must have a minimum of a 2.5 grade point average. The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken at residence at UWM. All credits in the minor must be completed with an overall grade point average of at least 2.5, and no courses may be taken on a credit no credit basis. Students must comply with the prerequisite requirements of courses to be taken under this program. Some of these requirements may be satisfied while in the program.

#### Architectural Studies Minor: 18 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 100</td>
<td>Architectural Making I</td>
<td>0.5</td>
</tr>
<tr>
<td>ARCH 101</td>
<td>Introduction to Architecture</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH 103</td>
<td>Architectural Making II</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH 104</td>
<td>Architectural Thinking II</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH 282</td>
<td>Visualization I</td>
<td>3.0</td>
</tr>
</tbody>
</table>

The coursework exposes students to the fundamental principles that integrate design thinking with human behavior. Some students may wish to use the minor as a means of investigating possible graduate studies in architecture and some way wish to develop architectural specialties with other disciplines.

---

1. Elective studios are a form of creative project-based research.
2. Elective seminars and workshops are 3-credit classes investigating architectural issues through critical reading, thorough research, student discussions, and scholarly production.
Architecture, MArch

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

- MArch (pre-professional degree + 60 graduate credits)
- MArch (non-pre-professional degree + 90 credits)

Master of Science in Architecture (MS)

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

PhD Program

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

MArch/MUP Program

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

Additional Notes

Individuals seeking to use the School’s Shop must first provide evidence of personal accident and health insurance to the Dean’s office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission to 2-Year Program
An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is
Admission to 3 Year Program
An applicant with an undergraduate degree in a field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required.

Admission to the 3 year program requires, in addition to general Graduate School requirements, an undergraduate GPA of at least 3.0 (4.0 scale), submission of test results from the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (and TOEFL or IELTS, for international students), three letters of recommendation, and a portfolio of written and/or visual work.

Admission to MArch/MUP Program
Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master’s degree program are detailed in the Urban Planning section of this Bulletin.

Credits and Courses
2 Year Program
The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture, with a distribution of at least 39 credits in the following four categories:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology Categories</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 520</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 521</td>
<td>Environmental Systems: Resources-Fluid Distribution Systems</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 522</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td>3</td>
</tr>
<tr>
<td><strong>Theory</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory.</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional course 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Practice</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 581</td>
<td>Law and Professional Practice for Architects</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional course 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Design</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 825</td>
<td>Comprehensive Design Studio:</td>
<td>6</td>
</tr>
<tr>
<td>Select two additional studios 2</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Capstone and Elective Credits (Students choose content specific to their area of interest)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capstone options (3-18 credits)</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 794</td>
<td>Pre-Thesis or Master's Project Research</td>
<td></td>
</tr>
<tr>
<td>A 500-level or higher architecture elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- ARCH 890 Master’s Thesis
- ARCH 891 Master’s Project
- ARCH 850 Advanced Design Studio:

**Electives (3-18 credits)**

The remaining credits required for the M.Arch degree are graduate-level electives in or outside the Department of Architecture.

Total Credits 60

1. For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required distribution courses or their equivalents as undergraduates may substitute architectural electives.

2. One of the additional studios must be at the 800 level. A minimum grade of “B” (3.00) in each studio is required.

3 Year Program
Consult Student Advising Office for sequencing of courses, (414) 229-4015

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The entry requirements totaling 30 cr. are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 300</td>
<td>Architectural History and Theory</td>
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<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 303</td>
<td>Architecture Systems 2</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 782</td>
<td>Visualization 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 783</td>
<td>Visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 810</td>
<td>Architectural Design I</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 820</td>
<td>Architectural Design II</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 30

Some of these requirements may be waived by the MArch Committee upon an applicant’s acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture (including the capstone requirement), with at least 39 credits in the distribution areas of technology, theory, practice and design.-

Additional Requirements
**Major Professor as Advisor**
The student must have a professor to advise and supervise the student’s studies as specified in Graduate School regulations.

Architecture, MArch/Urban Planning, MUP

Joint program candidates must complete all of the requirements of the MArch (p. 51) degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master’s program (p. 65) is detailed in the Urban Planning section of this Catalog.
Requirements

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses
Students in the MArch/MUP program are required to complete a total of 84 credits: 27 credits of core courses and 9 elective credits in urban planning, 42 credits in architecture, including distribution requirements, architecture capstone requirement and architecture electives, and 6 credits of additional electives.

Students in the MArch/MUP program are required to complete a total of 84 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>URBAN PLANNING CORE COURSES</strong></td>
<td></td>
</tr>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td>1</td>
</tr>
<tr>
<td><strong>Urban Planning Electives</strong></td>
<td>9</td>
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</tr>
<tr>
<td>URBPLAN 858</td>
<td>Studio in Urban Design and Physical Planning (6 cr)</td>
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</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td>1</td>
</tr>
<tr>
<td>or URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td>1</td>
</tr>
<tr>
<td><strong>ARCHITECTURE REQUIREMENTS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements ¹</td>
<td>27</td>
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<tr>
<td>Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 520</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>1</td>
</tr>
<tr>
<td>ARCH 522</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td>1</td>
</tr>
<tr>
<td>Theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory</td>
<td></td>
</tr>
</tbody>
</table>

¹ Students who have completed any of the required distribution courses or their equivalents as undergraduates may substitute architecture electives.

Joint Program Candidates
Joint program candidates must complete all of the requirements of the MArch degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master's program is detailed in the Urban Planning section of this Bulletin.

Additional Requirements

Capstone Requirement
The student in the M.Arch/MUP program must complete the Architecture Capstone Requirement, and must also take and pass the comprehensive exam in Urban Planning.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Architecture, MArch: Ecological Design
The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for
program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

MArch (pre-professional degree + 60 graduate credits)
MArch (non-pre-professional degree + 90 credits)

Master of Science in Architecture (MS)
This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional fields. Both the MArch and MUP degrees are awarded simultaneously to and be admitted to both programs. The requirements for admission to 2-Year Program

Admission to MArch/MUP Program

Admission to MArch/MUP Program

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission to 2-Year Program
An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Admission to 3 Year Program
An applicant with an undergraduate degree in a field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required.

Admission to the 3 year program requires, in addition to general Graduate School requirements, an undergraduate GPA of at least 3.0 (4.0 scale), submission of test results from the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (and TOEFL or IELTS, for international students), three letters of recommendation, and a portfolio of written and/or visual work.

Admission to MArch/MUP Program
Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master’s degree program are detailed in the Urban Planning section of this Bulletin.

Credits and Courses

2 Year Program
The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture, with a distribution of at least 39 credits in the following four categories:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Technology</td>
<td></td>
</tr>
</tbody>
</table>
Select one of the following:

- ARCH 520: Environmental Systems: Illumination and Thermal Comfort
- ARCH 521: Environmental Systems: Fluid Distribution Systems
- ARCH 522: Environmental Systems: Lighting and Acoustical Design

Theory

- ARCH 533: Topics in Architectural Theory 3
- Select one additional course 1 3

Practice

- ARCH 581: Law and Professional Practice for Architects 3
- Select one additional course 1 3

Design

- ARCH 825: Comprehensive Design Studio 6
- Select two additional studios 2 12

Capstone and Elective Credits (Students choose content specific to their area of interest)

Capstone options (3-18 credits)

Select one of the following:

- ARCH 794: Pre-Thesis or Master's Project Research
- A 500-level or higher architecture elective

Select one of the following:

- ARCH 890: Master's Thesis
- ARCH 891: Master's Project
- ARCH 850: Advanced Design Studio

Electives (3-18 credits)

The remaining credits required for the M.Arch degree are graduate-level electives in or outside the Department of Architecture

Total Credits 60

For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required distribution courses or their equivalents as undergraduates may substitute architectural electives.

One of the additional studios must be at the 800 level. A minimum grade of "B" (3.00) in each studio is required.

3 Year Program

Consult Student Advising Office for sequencing of courses, (414) 229-4015

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The entry requirements totaling 30 cr. are as follows:

- ARCH 300: Architectural History and Theory 3
- ARCH 301: Architecture Systems 1 3
- ARCH 302: Architecture and Human Behavior 3
- ARCH 303: Architecture Systems 2 3
- ARCH 782: Visualization 1 3
- ARCH 783: Visualization 2 3
- ARCH 810: Architectural Design I 6
- ARCH 820: Architectural Design II 6

Total Credits 30

Some of these requirements may be waived by the MArch Committee upon an applicant's acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture (including the capstone requirement), with at least 39 credits in the distribution areas of technology, theory, practice and design.

Transcript-Designated Concentration in Ecological Design

Students wishing to pursue this concentration must be enrolled in the Master of Architecture program and must complete a minimum of 21 credits from the following groups of courses:

Ecological Design Required Core

- ARCH 723: Fundamentals of Ecological Architecture 6

Select one of the following (ecological design focus):

- ARCH 794: Pre-Thesis or Master's Project Research
- A 500-level or higher architecture elective

Ecological Design Electives 1 9

At least 3 credits taken outside architecture

Capstone (Courses listed above) 6

Total Credits 21

For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required distribution courses or their equivalents as undergraduates may substitute architectural electives.

Additional Requirements

Major Professor as Advisor

The student must have a professor to advise and supervise the student's studies as specified in Graduate School regulations.

Architecture, MArch: Preservation Studies

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated
practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

- MArch (pre-professional degree + 60 graduate credits)
- MArch (non-pre-professional degree + 90 credits)

**Master of Science in Architecture (MS)**

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

**PhD Program**

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

**MArch/MUP Program**

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

**Additional Notes**

Individuals seeking to use the School’s Shop must first provide evidence of personal accident and health insurance to the Dean’s office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission to 2-Year Program**

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre).
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

**Admission to 3 Year Program**

An applicant with an undergraduate degree in a field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required.

Admission to the 3 year program requires, in addition to general Graduate School requirements, an undergraduate GPA of at least 3.0 (4.0 scale), submission of test results from the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre) (and TOEFL or IELTS, for international students), three letters of recommendation, and a portfolio of written and/or visual work.

**Admission to MArch/MUP Program**

Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master’s degree program are detailed in the Urban Planning section of this Bulletin.
Credits and Courses

2 Year Program
The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture, with a distribution of at least 39 credits in the following four categories:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Distribution Categories</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 520</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 521</td>
<td>Environmental Systems: Resources-Fluid Distribution Systems</td>
<td></td>
</tr>
<tr>
<td>ARCH 522</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td></td>
</tr>
<tr>
<td><strong>Theory</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Practice</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 581</td>
<td>Law and Professional Practice for Architects</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Design</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 825</td>
<td>Comprehensive Design Studio</td>
<td>6</td>
</tr>
<tr>
<td>Select two additional studios</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capstone and Elective Credits (Students choose content specific to their area of interest)</strong></td>
<td></td>
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</tr>
<tr>
<td>Capstone options (3-18 credits)</td>
<td></td>
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</tr>
<tr>
<td>ARCH 794</td>
<td>Pre-Thesis or Master’s Project Research</td>
<td></td>
</tr>
<tr>
<td>A 500-level or higher architecture elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 890</td>
<td>Master's Thesis</td>
<td></td>
</tr>
<tr>
<td>ARCH 891</td>
<td>Master's Project</td>
<td></td>
</tr>
<tr>
<td>ARCH 850</td>
<td>Advanced Design Studio:</td>
<td></td>
</tr>
<tr>
<td><strong>Electives (3-18 credits)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The remaining credits required for the M.Arch degree are graduate-level electives in or outside the Department of Architecture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 60

3 Year Program
Consult Student Advising Office for sequencing of courses, (414) 229-4015
An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The entry requirements totaling 30 cr. are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 300</td>
<td>Architectural History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 303</td>
<td>Architecture Systems 2</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 782</td>
<td>Visualization 1</td>
<td>3</td>
</tr>
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<td>ARCH 783</td>
<td>Visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 810</td>
<td>Architectural Design I</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 820</td>
<td>Architectural Design II</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 30
Some of these requirements may be waived by the MArch Committee upon an applicant’s acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture (including the capstone requirement), with at least 39 credits in the distribution areas of technology, theory, practice and design.

Transcript-Designated Concentration in Preservation Studies
Students must complete a minimum of 21 credits from the following groups of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 560</td>
<td>Introduction to Historic Preservation</td>
<td>12</td>
</tr>
<tr>
<td>ARCH 760</td>
<td>History of Building Technology</td>
<td></td>
</tr>
<tr>
<td>ARCH 850</td>
<td>Advanced Design Studio:</td>
<td>1</td>
</tr>
<tr>
<td>Capstone (Courses listed above) and Preservation Elective credits</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

1. Each enrollment in Arch 850 must have a change in topic.

2. For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu.

Additional Requirements

Major Professor as Advisor
The student must have a professor to advise and supervise the student's studies as specified in Graduate School regulations.

Architecture, MArch: Real Estate Development
The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant’s previous academic
background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in select subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

MArch (pre-professional degree + 60 graduate credits)
MArch (non-pre-professional degree + 90 credits)

Master of Science in Architecture (MS)

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

PhD Program

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

MArch/MUP Program

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

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Admission Requirements

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Admission to 2-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these Department of Architecture requirements to be considered for admission to the program:

• Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
• Completion of at least five undergraduate design studios.
• Three letters of recommendation from three previous faculty and/or members of the profession.
• Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
• Portfolio of architectural studies work.
• For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Admission to 3 Year Program

An applicant with an undergraduate degree in a field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required.

Admission to the 3 year program requires, in addition to general Graduate School requirements, an undergraduate GPA of at least 3.0 (4.0 scale), submission of test results from the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (and TOEFL or IELTS, for international students), three letters of recommendation, and a portfolio of written and/or visual work.

Admission to MArch/MUP Program

Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission
to the Urban Planning Master's degree program are detailed in the Urban Planning section of this Bulletin.

**Credits and Courses**

**2 Year Program**

The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture, with a distribution of at least 39 credits in the following four categories:

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<td>Electives (3-18 credits)</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

2 One of the additional studios must be at the 800 level. A minimum grade of “B” (3.00) in each studio is required.

**3 Year Program**

Consult Student Advising Office for sequencing of courses, (414) 229-4015

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The entry requirements totaling 30 cr. are as follows:

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</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

Some of these requirements may be waived by the MArch Committee upon an applicant’s acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture (including the capstone requirement), with at least 39 credits in the distribution areas of technology, theory, practice and design.

**Transcript-Designated Concentration in Real Estate Development**

Students must complete a minimum of 21 credits from the following groups of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Real Estate Required Core</strong></td>
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</tr>
<tr>
<td>ARCH 780</td>
<td>The Built Environment and Real Estate Development</td>
<td>6</td>
</tr>
<tr>
<td>BUS ADM 481</td>
<td>Real Estate Finance</td>
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</tr>
<tr>
<td>BUS ADM 483</td>
<td>Property Development and Management</td>
<td></td>
</tr>
<tr>
<td>Real Estate Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Capstone (Courses listed above)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

1 For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu

**Additional Requirements**

**Major Professor as Advisor**

The student must have a professor to advise and supervise the student’s studies as specified in Graduate School regulations.

**Architecture, MS**

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research.
Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
As an applicant, you must meet Graduate School requirements plus these Department of Architecture requirements to be eligible for consideration for admission to the program:

1. Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from people familiar with your academic and/or professional work.
3. Submission of test results from the General Test portion of the Graduate Record Examination.
4. Resume, Curriculum Vitae, or Biographical Statement.
5. Portfolio/Work Samples (examples of professional work, design work, research, teaching, and/or other work relevant to advanced research).
6. For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

In addition, the Reasons Statement submitted to the Graduate School must also incorporate the following information:

1. Your proposed area of investigation.
2. A clear description of your intentions.
3. Why you believe the program is appropriate for your course of study.
4. How your proposed area of study fits with faculty interest areas.

**Credits and Courses**
The minimum degree requirement is 30 graduate credits, of which 24 credits must be coursework in Architecture taken at the 500-level or above. Of the total 30 credits, each student is required to satisfy each of the four content areas below.

<table>
<thead>
<tr>
<th>Content Areas</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Methods and Techniques</td>
<td></td>
<td>Select at least 6 credits of approved courses regarding research methods and techniques</td>
<td>6</td>
</tr>
<tr>
<td>Applied Practice</td>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Select at least 6 credits related directly to the application of the student's area of specialization to practical applications in architecture and/or related disciplines

<table>
<thead>
<tr>
<th>Independent Work</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3-6 credits from one or both of the following related to the student's area of specialization:</td>
<td></td>
</tr>
<tr>
<td>ARCH 791</td>
<td>Master's Level Directed Research</td>
</tr>
<tr>
<td>ARCH 792</td>
<td>Master's Level Independent Studies and Research</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Elective(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-6 credits of electives related to the student's area of specialization</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pre-Thesis or Master's Project Research</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Thesis or Master's Project Research</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 794</td>
<td>Pre-Thesis or Master's Project Research</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Master's Thesis or Master's Project</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master's Thesis or Master's Project</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 890</td>
<td>Master's Thesis</td>
</tr>
<tr>
<td>or ARCH 891</td>
<td>Master's Project</td>
</tr>
</tbody>
</table>

**Total Credits**
30-36

Course requirements vary substantially depending upon the student's individualized program of study, which is developed in consultation and agreement with the student's faculty advisor.

**Additional Requirements**

**Major Professor as Advisor**
Upon admission, each student is assigned a faculty advisor to advise and supervise the student's studies.

**Master's Thesis or Project**
The student must submit an acceptable master's thesis or master's project and orally defend it.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Architecture, PhD**

The Department offers a program of advanced study and research leading to the PhD degree in Architecture. For over 35 years, the PhD Program in Architecture has been a mainstay of the University of Wisconsin-Milwaukee's reputation as a leader in architectural research and education. The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

The PhD is a research degree that requires general proficiency in one's field, distinctive accomplishment in a specialized area of expertise, and the conduct of significant independent research. Thus, the PhD Program is appropriate for persons who wish to pursue research from a multi-
disciplinary perspective and who seek careers in research, consulting, government, and/or teaching in architecture and the design profession.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
The PhD program seeks to maintain a rich and diverse mix of students and thus encourages applicants with backgrounds in architecture, allied design fields, and/or the social and behavioral sciences. Likewise, the program is open to applicants holding undergraduate as well as graduate degrees. It is most important that applicants have a strong commitment to the conduct of advanced architectural research.

As an applicant, you must meet Graduate School requirements plus these Department of Architecture requirements to be eligible for consideration for admission to the program:

1. Undergraduate or graduate cumulative grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons in a position to assess your potential for advanced graduate research leading to a PhD.
3. Submission of test results from the General Test portion of the Graduate Record Examination. (http://uwm.edu/graduateschool/admission/#gre)
4. Resume, Curriculum Vitae, or Biographical Statement (1-2 pages total including your educational background, work/research experience, publications/projects completed and any recognitions/awards received.
5. Reasons Statement (2-3 page statement that includes your long-term goals, a summary of relevant work completed to date, your research interests, and your likely area of specialization within the doctoral program. Specifically address how your proposed program of study fits with the interests of program faculty).
6. For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Reapplication
A student who has received a master’s degree in Architecture or in Urban Planning from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the PhD degree.

Credits and Courses
The Ph.D. Program requires a minimum of 54 credits beyond the baccalaureate degree. It is a research degree structured around a series of related, typically sequential (but occasionally overlapping) requirements as follows:

1. Complete a minimum of one year of core courses in the area of concentration, and the minimum residence requirement of 27 graduate credits subsequent to attaining full doctoral status, and 54 credits beyond the baccalaureate degree.
2. Develop a program of study.
3. Undertake courses in the core, area of concentration, and major and minor fields of study. Course requirements vary substantially depending upon the student’s program of study, developed in consultation with, and in agreement with, the student’s major professor.
4. Conduct an intermediate research project.
5. Complete the doctoral preliminary examinations leading to advancement to candidacy with dissertator status.
6. Design, conduct and defend an original dissertation that makes an original contribution to the scholarship of the field.

Depending on background preparation and amount of time spent in full-time residency, students should be able to complete the degree in approximately four to six years. Individual timetables will vary depending upon background preparation and time spent in full-time residency.

Additional Requirements

Major Professor as Advisor
Upon admission, each student is assigned a faculty advisor. During the first semester, each student is expected to meet with their faculty advisor to develop a program of study. In general, the program of study consists of the proposed major field of study within the area of concentration, minor field(s) of study, and a brief description of coursework to be completed. Each student selects Major and Minor Professors to advise and supervise coursework and independent readings in preparation for the doctoral preliminary examination and completion of minor requirements. Upon admission to candidacy, each student defines a dissertation topic and selects a Major Professor as Dissertation Chair. Selection of the area of specialization and dissertation topic and of the Major and Minor Professors and Dissertation Chair is subject to approval by the PhD Program Committee.

Foreign Language Requirement
A foreign language requirement is optional, depending upon the recommendation of the student’s Major Professor and the PhD Program Committee.

Residence
The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examinations
The student must pass doctoral preliminary examinations ("prelims") to qualify for formal admission to candidacy for the degree. The Graduate School requires that you pass your prelims within five years of initial enrollment in your doctoral program.

The prelims have three written components and one oral review. The three written portions include questions on:

1. Theory.
3. Substantive area(s) of specialization and the minor field of study.

Candidacy
The student is officially admitted to candidacy for the PhD degree after completing the residence requirement, core courses and intermediate research project, completing the courses in the area of specialization
and minor field, and passing the doctoral preliminary examinations (and language examination, if required).

**Dissertation**
The candidate must design, conduct, and write a research dissertation which demonstrates ability to formulate a research topic and pursue independent and original research that makes a contribution to the field. Selection of the dissertation topic, Dissertation Chair, and Dissertation Committee is subject to approval of the PhD Program Committee.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation. For more information on the dissertation defense, contact the graduate advisor in the School of Architecture and Urban Planning Student Advising Office, AUP 225.

**Continuation**
For further information about departmental policies in the PhD program, please contact the graduate advisor in the School of Architecture and Urban Planning Student Advising Office, AUP 225.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information on Graduate School PhD requirements, see the Doctor of Philosophy Degree Requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

**Urban Planning**
Planners work to enhance quality of life and social equity for all, whether working on revitalizing an older neighborhood or developing a regional transportation plan that enhances opportunities for people of all incomes, ages, and physical abilities. Planners address the diverse needs of community members to build a better future.

Urban planning is an interdisciplinary field of study, reflected in the academic backgrounds of our faculty (http://uwm.edu/sarup/classification/urban-planning/) who have expertise in economics, urban design, urban revitalization, transportation, sustainability, and the intersections between these areas of study.

Although the professional planning program offered at UWM is a master’s degree requiring two years of graduate study, a number of planning courses are available to undergraduates. They include:

1. A cluster of introductory courses reviewing urban problems and solutions for freshmen and sophomores, and introducing urban planning to upper-level undergraduates.
2. A cluster presenting the planning process in a general urban context.
3. A group of upper-level courses that introduce more specialized aspects of planning in contexts ranging from neighborhoods, through suburbs, to new towns and planned communities; and approaches from fiscal planning to environmental issues.

These courses are offered to students interested in learning more about planning and the roles of planners in addressing urban problems, and complement other programs such as architecture, business, economics, engineering, geography, social work, sociology, and political science.

**Programs**
- Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning) (p. 63)
- Urban Planning, MUP (p. 65)
- Urban Planning, MUP/Architecture, MArch (p. 66)
- Urban Planning, MUP/Engineering, MS (p. 67)
- Urban Planning, MUP/Public Administration, MPA (p. 68)
- Urban Planning, MUP, Geographic Information Systems (p. 69)
- Urban Planning, MUP, Real Estate Development (p. 71)
- Urban Planning, Undergraduate Certificate (p. 73)

**Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ernest Alexander</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Carolyn Esswein</td>
<td>Adjunct Assistant Professor</td>
<td>MArch, MUP</td>
<td>State University of New York at Albany</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Enrique Figueroa</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>State University of New York at Albany</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Nancy Frank</td>
<td>Associate Professor, Interim Dean</td>
<td>PhD</td>
<td>State University of New York at Albany</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Kirk Harris</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Lingguan (Ivy) Hu</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>University of Southern California</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>William Huxhold</td>
<td>Professor</td>
<td>MS</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Mordecai Lee</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Joseph Mangiamele</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Robert Schneider</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Sammis White</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

**Contact Information**
Department of Urban Planning
2131 E. Hartford Avenue
Milwaukee, WI 53211

Phone: (414) 229-5563

sarup-ugrad@uwm.edu
sarup-grad@uwm.edu

uwm.edu/sarup/urban-planning/ (http://uwm.edu/sarup/urban-planning/)
Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning)

The Certificate in Geographic Information Systems is designed for those individuals seeking careers as GIS specialists, providing geographic data management, spatial analysis, and GIS system management support to professionals in a broad range of disciplines, such as criminal justice, health services, city and regional planning, civil and environmental engineering, transportation, and marketing. Certificate holders will seek employment in positions such as “GIS Specialist,” “GIS Analyst,” or “GIS Coordinator.”

The School of Architecture and Urban Planning, and the College of Letters and Science jointly offer the certificate. The core courses (12 credits) focus on the structure of geographic data, components for managing geographic information systems, spatial analysis, and delivery of geographic information through maps and displays. Students select the remaining 6 credits for the certificate from electives, which may include an internship, in areas such as remote sensing, map-making, and data management systems.

Upon completion of the certificate courses, a student is awarded the certificate which qualifies for 5 credential points in the GIS Certification Institute’s standards for professional certification in GIS.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted to a certificate program.

Credits and Courses

A minimum of 6 credits each in Urban Planning and Geography courses are required for completion of the certificate. To earn the Certificate, one must complete six semester-long courses (with a minimum of 18 credits), satisfy graduate school criteria for successful completion and maintain at least a B (3.00) average among the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>Tier 2 (select one course)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 826</td>
<td>Intermediate Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td></td>
</tr>
<tr>
<td>Tier 3 (Select two courses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 704</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 705</td>
<td>Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 748</td>
<td>ArcGIS Programming with Python</td>
<td></td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
<td></td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td></td>
</tr>
<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques:</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives 6

Select two courses from the list below

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEOG 704</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
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<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td></td>
</tr>
<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques:</td>
<td></td>
</tr>
<tr>
<td>GEOG 999</td>
<td>Independent Work</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning:</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems</td>
<td></td>
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<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
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<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td></td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td></td>
</tr>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services</td>
<td></td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td></td>
</tr>
</tbody>
</table>
INFOST 714 Metadata

<table>
<thead>
<tr>
<th>Electives Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis (if not selected above)</td>
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</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 515</td>
<td>Watershed Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 647</td>
<td>ArcGIS Programming with Python (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>1-6</td>
</tr>
<tr>
<td>GEOG 804</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 894</td>
<td>GIS and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 904</td>
<td>Remote Sensing and Urban Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques: (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 999</td>
<td>Independent Work (with appropriate topic)</td>
<td>1-6</td>
</tr>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning: (&quot;Transportation Planning and GIS&quot; subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS) (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td>3-6</td>
</tr>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
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</tr>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services</td>
<td>3</td>
</tr>
</tbody>
</table>

INFOST 691 Special Topics in Information Science: (Economics of Information) 1-3

INFOST 714 Metadata (prerequisites strictly enforced) 3

Other courses as approved by the GIS Certificate Advisory Committee chairperson

Students will be advised by the Geography and Urban Planning faculty who teach GIS courses.

**Additional Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last two years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Gainful Employment Disclosure Information**

Urban Planning, MUP

Related Certificates

• Certificate in Geographic Information Systems (p. 63)

Overview

The Urban Planning program at UWM is a professional, skills-oriented, master’s program designed to train students to perform a variety of planning-related jobs in either the public or private sector.

The program focuses on planning as a process for improving collective decisions in the public and private sectors. The planning process includes analyzing problems, designing alternative solutions and evaluating their consequences, developing strategies for action and participating in their implementation. This process is used in both government and business in developing policy for future action, so that today’s solutions do not become tomorrow’s problems.

The program’s elective courses combined with other courses on campus enable the development of more specialized depth in several planning-related areas under the following concentrations: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources.

The Department is staffed by faculty members who combine academic and professional qualifications and who are committed to active involvement in current issues. They teach by example, using case studies and projects involving actual situations in most courses. This approach injects reality into the educational environment, allows students to see the relevance of the material in the curriculum, and shows students how their courses relate to their professional practice.

The Milwaukee Metropolitan area of one-and-one-half million persons is a learning laboratory that classroom projects and faculty researchers use extensively. Moreover, students gain additional practical experience through internships in the wide array of planning positions available in the Milwaukee area.

MArch/MUP Coordinated Degree Program

In cooperation with the Department of Architecture, the Department of Urban Planning offers a Master of Architecture/Master of Urban Planning program to prepare students for positions as architect/planners. Students in the program concurrently pursue a Master of Architecture degree program and a Master of Urban Planning degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MPA/MUP Coordinated Degree Program

A joint degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently. This program is intended to combine professional training in planning with applied administrative and managerial skills. More detailed information on this program can be found later in this section and in the Public Administration section of this Bulletin.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus these Department of Urban Planning requirements to be considered for admission to the program:

• Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
• Three letters of recommendation from three previous faculty and/or professionals.
• Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre).
• For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Candidates seeking admission to the M.Arch/MUP the MPA/MUP or the MS/MUP program must apply to and be admitted to both programs. The requirements for admission to the Master of Architecture degree program are detailed in the Architecture section of this Catalog. The requirements for admission to the Master of Science in Engineering program are detailed in the Engineering section of this Catalog. The requirements for admission to the MPA program are detailed in the Public Administration section of this Catalog.

Credits and Courses

The minimum degree requirement is 48 credits. Of these 48 credits, 27 are taken in the core curriculum, consisting of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
</tbody>
</table>
Comprehensive Examination

All students in the program must take a written comprehensive examination as a requirement for graduation. The examination is given between the second and third semesters so that any deficiencies can be eliminated in the second year of the program through structured courses or directed study. Successful completion of the exam, or successful completion of courses specified for removal of deficiencies, represents fulfillment of the comprehensive examination requirement. Students in the M.S./MUP program also must take and pass the comprehensive examination in engineering.

Thesis

No formal master's project or master's thesis is required for the MUP degree. However, a thesis may be substituted for as many as 6 elective credits. The student must obtain approval for the thesis proposal from any urban planning faculty member. The students may relate their thesis work to the program core, the general option or an emphasis option.

Time Limit

The degree program itself is designed largely for full-time students. But the program does allow students up to seven years from the time of initial enrollment to complete all degree requirements.

Students in the M.Arch/MUP and MPA/MUP programs are allowed up to seven years from time of initial enrollment to complete all requirements for both degrees. Students in the M.S./MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

*Note* Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

Urban Planning, MUP/Architecture, MArch

Joint program candidates must complete all of the requirements of the MArch (p. 51) degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master's program (p. 65) is detailed in the Urban Planning section of this Catalog.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

Students in the MArch/MUP program are required to complete a total of 84 credits: 27 credits of core courses and 9 elective credits in urban planning, 42 credits in architecture, including distribution requirements, architecture capstone requirement and architecture electives, and 6 credits of additional electives.

Students in the MArch/MUP program are required to complete a total of 84 credits:

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<th>Credits</th>
</tr>
</thead>
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<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
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<td>Planning Theories and Practice</td>
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<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Transfer Credits

Graduate coursework in urban planning or a related discipline taken prior to a student's admission to the program may be considered for transfer to the master's degree.

Writing Assessment

Being able to write clearly and effectively is a critical skill for planners. The Urban Planning program encourages improvement in student's writing skills by emphasizing writing improvement across the curriculum, and especially in the core courses.

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses.

Students who lack the required level of proficiency may be required to take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Emphasis Areas

The remaining 21 credits may be taken in the general option or any of the emphasis areas listed under the Overview tab: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources. Each emphasis area consists of a recommended set of courses which may include one or more planning electives as emphasis area core courses, and a selection of electives from among planning and other courses. Details of the emphasis area can be obtained from the Department of Urban Planning and are finalized in consultation with the student's academic advisor.

Additional Requirements

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Select a concentration or emphasis area

Concentration or Emphasis Area

Total Credits

48

Urban Planning, MUP/Architecture, MArch

Joint program candidates must complete all of the requirements of the MArch (p. 51) degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master's program (p. 65) is detailed in the Urban Planning section of this Catalog.
Additional Requirements

Capstone Requirement
The student in the M.Arch/MUP program must complete the Architecture Capstone Requirement, and must also take and pass the comprehensive exam in Urban Planning.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Urban Planning, MUP/Engineering, MS

In cooperation with the Department of Urban Planning, the College of Engineering and Applied Science offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas.

Cooperating Departments:
Civil Engineering
Electrical Engineering and Computer Science
Industrial and Manufacturing Engineering
Materials
Mechanical Engineering

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

Students are required to meet the College of Engineering and Applied Science requirements for the Master of Science in Engineering degree as well as the requirements for a Master of Urban Planning degree as set by the Department of Urban Planning. Students in this program are required to take 15 credits in an approved program of technical studies in the College of Engineering and Applied Science, and 6 credits in non-transportation related engineering approved electives.

Students in the MS/MUP program are required to take 6 credits in the Department of Urban Planning as well as an additional 24 credits of core courses in the Department of Urban Planning. The total credit requirement for the MS/MUP program is 54 credits. Students in the MS/MUP program must also take and pass a comprehensive exam in Urban Planning.

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>27</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
</tbody>
</table>
Urban Planning, MUP/Public Administration, MPA

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td>3</td>
</tr>
<tr>
<td>or URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
</tr>
<tr>
<td>or URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 27

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 27

**Additional Requirements**

**Degree Requirements**

Students in the program will concurrently pursue a Master of Science in Engineering degree and a Master of Urban Planning degree from the School of Architecture and Urban Planning. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. Candidates seeking admission to the MS/MUP must apply to and be admitted to both programs. The requirements for admission to the Master of Urban Planning degree program are detailed in the Urban Planning section of the Catalog.

**Time Limit**

Students in the MS/MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

**Urban Planning, MUP/Public Administration, MPA**

The College of Letters and Science and the Lubar School of Business offer and present jointly the Master of Public Administration (MPA).

The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart [here](http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars [here](https://uwm.edu/onestop/dates-and-deadlines/).

**Credits and Courses**

This program allows students to complete master's degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits will depend on the student's track and choice of concentration in public administration.

**Required Courses in Urban Planning (27 credits)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
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<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
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<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 27

**Civil Engineering Concentration**

A minimum of 15 credits of qualifying graduate courses in Civil Engineering.

**Qualifying Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

May include up to 3 credits each of:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15
Overview

The Urban Planning program at UWM is a professional, skills-oriented, master's program designed to train students to perform a variety of planning-related jobs in either the public or private sector.

The program focuses on planning as a process for improving collective decisions in the public and private sectors. The planning process includes analyzing problems, designing alternative solutions and evaluating their consequences, developing strategies for action and participating in their implementation. This process is used in both government and business in developing policy for future action, so that today's solutions do not become tomorrow's problems.

The program's elective courses combined with other courses on campus enable the development of more specialized depth in several planning related areas under the following concentrations: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources.

The Department is staffed by faculty members who combine academic and professional qualifications and who are committed to active involvement in current issues. They teach by example, using case studies and projects involving actual situations in most courses. This approach injects reality into the educational environment, allows students to see the relevance of the material in the curriculum, and shows students how their courses relate to their professional practice.

The Milwaukee Metropolitan area of one-and-one-half million persons is a learning laboratory that classroom projects and faculty researchers use extensively. Moreover, students gain additional practical experience through internships in the wide array of planning positions available in the Milwaukee area.

MArch/MUP Coordinated Degree Program

In cooperation with the Department of Architecture, the Department of Urban Planning offers a Master of Architecture/Master of Urban Planning program to prepare students for positions as architect/planners. Students in the program concurrently pursue a Master of Architecture degree program and a Master of Urban Planning degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. For more detailed information on this program see Credits and Courses section below.

MS/MUP Coordinated Degree Program

In cooperation with the College of Engineering and Applied Science, the Department of Urban Planning offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas. Students in the program will concurrently pursue a Master of Urban Planning degree program in the Department of Urban Planning and a Master of Science in Engineering degree program from the College of Engineering and Applied Science. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MPA/MUP Coordinated Degree Program

A joint degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently. This program is intended to combine professional training in planning with applied administrative and managerial skills. More detailed information on this program can be

Related Certificates

• Certificate in Geographic Information Systems (p. 63)
found later in this section and in the Public Administration section of this Bulletin.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet Graduate School requirements plus these Department of Urban Planning requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation from three previous faculty and/or professionals.
- Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).

- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Candidates seeking admission to the M.Arch/MUP, the MPA/MUP, or the MS/MUP program must apply to and be admitted to both programs. The requirements for admission to the Master of Architecture degree program are detailed in the Architecture section of this Catalog. The requirements for admission to the Master of Science in Engineering program are detailed in the Engineering section of this Catalog. The requirements for admission to the MPA program are detailed in the Public Administration section of this Catalog.

**Credits and Courses**

The minimum degree requirement is 48 credits. Of these 48 credits, 27 are taken in the core curriculum, consisting of the following courses:

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<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
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<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
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<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
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</tr>
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</table>

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

**Transfer Credits**
Graduate coursework in urban planning or a related discipline taken prior to a student’s admission to the program may be considered for transfer to the master’s degree.

**Writing Assessment**
Being able to write clearly and effectively is a critical skill for planners. The Urban Planning program encourages improvement in student’s writing skills by emphasizing writing improvement across the curriculum, and especially in the core courses.

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses. Students who lack the required level of proficiency may be required to

<table>
<thead>
<tr>
<th>Concentration or Emphasis Area</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a concentration or emphasis area</td>
<td>21</td>
</tr>
<tr>
<td>Total Credits</td>
<td>48</td>
</tr>
</tbody>
</table>

**Emphasis Areas**
The remaining 21 credits may be taken in the general option or any of the emphasis areas listed under the Overview tab: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources. Each emphasis area consists of a recommended cluster of courses which may include one or more planning electives as emphasis area core courses, and a selection of electives from among planning and other courses. Details of the emphasis area can be obtained from the Department of Urban Planning and are finalized in consultation with the student’s academic advisor.

**Transcript-Designated Concentration in Geographic Information Systems**

Students must complete a minimum of 15 credits from the following groups of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>9</td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives**
Select a minimum of 6 elective credits

| Total Credits | 15 |

1 For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015, sarup-grad@uwm.edu).
take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

**Comprehensive Examination**
All students in the program must take a written comprehensive examination as a requirement for graduation. The examination is given between the second and third semesters so that any deficiencies can be eliminated in the second year of the program through structured courses or directed study. Successful completion of the exam, or successful completion of courses specified for removal of deficiencies, represents fulfillment of the comprehensive examination requirement. Students in the M.S./MUP program also must take and pass the comprehensive examination in engineering.

**Thesis**
No formal master's project or master's thesis is required for the MUP degree. However, a thesis may be substituted for as many as 6 elective credits. The student must obtain approval for the thesis proposal from any urban planning faculty member. The students may relate their thesis work to the program core, the general option or an emphasis option.

**Time Limit**
The degree program itself is designed largely for full-time students. But the program does allow students up to seven years from the time of initial enrollment to complete all degree requirements.

Students in the M.S./MUP and MPA/MUP programs are allowed up to seven years from time of initial enrollment to complete all requirements for both degrees. Students in the M.S./MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

*Note* Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

**Urban Planning, MUP: Real Estate Development**
A concentration in real estate development provides a focused course of study for Master of Architecture and/or Master of Urban Planning students who wish to pursue careers in real estate development in combination with professional architectural practice or work with a private or public developer.

**Related Certificates**
- Certificate in Geographic Information Systems (p. 63)

**Overview**
The Urban Planning program at UWM is a professional, skills-oriented, master’s program designed to train students to perform a variety of planning-related jobs in either the public or private sector.

The program focuses on planning as a process for improving collective decisions in the public and private sectors. The planning process includes analyzing problems, designing alternative solutions and evaluating their consequences, developing strategies for action and participating in their implementation. This process is used in both government and business in developing policy for future action, so that today’s solutions do not become tomorrow’s problems.

The program's elective courses combined with other courses on campus enable the development of more specialized depth in several planning related areas under the following concentrations: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources.

The Department is staffed by faculty members who combine academic and professional qualifications and who are committed to active involvement in current issues. They teach by example, using case studies and projects involving actual situations in most courses. This approach injects reality into the educational environment, allows students to see the relevance of the material in the curriculum, and shows students how their courses relate to their professional practice.

The Milwaukee Metropolitan area of one-and-one-half million persons is a learning laboratory that classroom projects and faculty researchers use extensively. Moreover, students gain additional practical experience through internships in the wide array of planning positions available in the Milwaukee area.

**MArch/MUP Coordinated Degree Program**
In cooperation with the Department of Architecture, the Department of Urban Planning offers a Master of Architecture/Master of Urban Planning program to prepare students for positions as architect/planners. Students in the program concurrently pursue a Master of Architecture degree program and a Master of Urban Planning degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. For more detailed information on this program see Credits and Courses section below.

**MS/MUP Coordinated Degree Program**
In cooperation with the College of Engineering and Applied Science, the Department of Urban Planning offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas. Students in the program will concurrently pursue a Master of Urban Planning degree program in the Department of Urban Planning and a Master of Science in Engineering degree program from the College of Engineering and Applied Science. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MPA/MUP Coordinated Degree Program**
A joint degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently. This program is intended to combine professional training in planning with applied administrative and managerial skills. More detailed information on this program can be found later in this section and in the Public Administration section of this Bulletin.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus these Department of Urban Planning requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation from three previous faculty and/or professionals.
- Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Candidates seeking admission to the M.Arch/MUP, the MPA/MUP, or the MS/MUP program must apply to and be admitted to both programs. The requirements for admission to the Master of Architecture degree program are detailed in the Architecture section of this Catalog. The requirements for admission to the Master of Science in Engineering program are detailed in the Engineering section of this Catalog. The requirements for admission to the MPA program are detailed in the Public Administration section of this Catalog.

Credits and Courses
The minimum degree requirement is 48 credits. Of these 48 credits, 27 are taken in the core curriculum, consisting of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
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</tr>
</tbody>
</table>

Select a concentration or emphasis area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 48

Emphasis Areas
The remaining 21 credits may be taken in the general option or any of the emphasis areas listed under the Overview tab: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources. Each emphasis area consists of a recommended cluster of courses which may include one or more planning electives as emphasis area core courses, and a selection of electives from among planning and other courses. Details of the emphasis area can be obtained from the Department of Urban Planning and are finalized in consultation with the student’s academic advisor.

Transcript-Designated Concentration in Real Estate Development
Students must complete a minimum of 21 credits from the following groups of courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 780</td>
<td>The Built Environment and Real Estate Development</td>
<td>6</td>
</tr>
<tr>
<td>BUS ADM 481</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
<tr>
<td>or BUS ADM 483</td>
<td>Property Development and Management</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 662</td>
<td>Public Sector Influence on Real Estate Development</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 762</td>
<td>Housing Markets and Public Policy</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 771</td>
<td>Transportation Policy and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 858</td>
<td>Studio in Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
<td></td>
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</tbody>
</table>

Capstone
Select one of the following options:

Option A: A thesis that focuses on real estate:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 990</td>
<td>Graduate Thesis</td>
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</tbody>
</table>

Option B: A real estate development proposal developed for a private organization (business or non-profit) that is innovative and adds significant value to the built environment:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
<td></td>
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</tbody>
</table>

Option C: A paper suitable for publication concerning real estate development, for which the student is either sole author or co-author with a faculty member:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21
Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Transfer Credits
Graduate coursework in urban planning or a related discipline taken prior to a student's admission to the program may be considered for transfer to the master's degree.

Writing Assessment
Being able to write clearly and effectively is a critical skill for planners. The Urban Planning program encourages improvement in student's writing skills by emphasizing writing improvement across the curriculum, and especially in the core courses.

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses. Students who lack the required level of proficiency may be required to take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

Comprehensive Examination
All students in the program must take a written comprehensive examination as a requirement for graduation. The examination is given between the second and third semesters so that any deficiencies can be eliminated in the second year of the program through structured courses or directed study. Successful completion of the exam, or successful completion of courses specified for removal of deficiencies, represents fulfillment of the comprehensive examination requirement. Students in the M.S./MUP program also must take and pass the comprehensive examination in engineering.

Thesis
No formal master's project or master's thesis is required for the MUP degree. However, a thesis may be substituted for as many as 6 elective credits. The student must obtain approval for the thesis proposal from any urban planning faculty member. The students may relate their thesis work to the program core, the general option or an emphasis option.

Time Limit
The degree program itself is designed largely for full-time students. But the program does allow students up to seven years from the time of initial enrollment to complete all degree requirements.

Students in the MArch/MUP and MPA/MUP programs are allowed up to seven years from time of initial enrollment to complete all requirements for both degrees. Students in the M.S./MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

*Note* Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

Urban Planning, Undergraduate Certificate

The Department of Urban Planning offers undergraduates the opportunity to obtain a Certificate in Urban Planning. All undergraduate students are eligible. The intent of the program is to recognize those students who obtain a thorough introduction to urban planning through coursework. These courses provide students with an understanding of many of the most important problems facing urban society and help prepare students for a variety of careers and graduate study. Interested students should inquire in the Student Advising Office about either the Certificate Program or appropriate courses as preparation for graduate study in urban planning.

Requirements
A cumulative GPA of 3.0 or better and a total of 18 credits from among designated courses are required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 140</td>
<td>Issues in Contemporary Urban Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 141</td>
<td>Urban Planning Solutions to Contemporary Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 315</td>
<td>Great Cities of the World: Their Growth and Guided Urbanization</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 316</td>
<td>Planning for the Great Cities of America</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 591</td>
<td>Introduction to Urban Geographic Information Systems (GIS) in Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 655</td>
<td>Negotiation Theory and Practice for Urban Planners</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 6 elective credits

<table>
<thead>
<tr>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 655</td>
<td>Negotiation Theory and Practice for Urban Planners</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

1 Students may take any urban planning courses, including those listed above, to fulfill the elective credit requirement. Courses may be counted only once toward the certificate.
ARTS (PECK SCHOOL OF THE)

The Peck School of the Arts includes five departments: Art & Design, Dance, Film, Music, and Theatre. Curricula are available for students interested in careers in the arts or in teaching at the elementary, secondary, or college level.

Degree Programs

Bachelor of Arts Animation, Art, Dance, Music, Theatre

Bachelor of Fine Arts Art, Art Education, Dance, Film, Music, Music Education, Theatre

Master of Arts Art

Master of Fine Arts Art, Performing Arts (Dance and Film)

Master of Music (including Music Education)

Master of Science Art Education

Departments and Programs

- Art & Design (p. 77)
  - Art and Design, Minor: Design (p. 83)
  - Art and Design, Minor: Photography (p. 83)
  - Art and Design, Minor: Studio (p. 84)
  - Art Education, BFA (p. 85)
  - Art Education, MS (p. 88)
  - Art, BA: Community Arts (p. 89)
  - Art, BA: Design Studies (p. 92)
  - Art, BA: Digital Fabrication and Design (p. 95)
  - Art, BA: Studio Arts (p. 98)
  - Art, BFA: Ceramics (p. 101)
  - Art, BFA: Design and Visual Communication (p. 104)
  - Art, BFA: Digital Studio Practice (p. 107)
  - Art, BFA: Fibers (p. 111)
  - Art, BFA: Jewelry and Metalsmithing (p. 114)
  - Art, BFA: Painting and Drawing (p. 117)
  - Art, BFA: Photography and Imaging (p. 120)
  - Art, BFA: Print and Narrative Forms (p. 124)
  - Art, BFA: Sculpture (p. 127)
  - Art, MA: Design Entrepreneurship and Innovation (p. 130)
  - Art, MA: Studio Art (p. 132)
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  - Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts, Department of Art and Design) (p. 134)
  - Community Arts, Undergraduate Certificate (p. 135)
  - Digital Fabrication and Design, Undergraduate Certificate (p. 136)

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  - Dance Performance, Minor (p. 138)
  - Dance, BA (p. 139)
  - Dance, BFA (p. 142)
  - Dance, MFA (p. 145)
  - Pilates, Undergraduate Certificate (p. 146)
  - Somatics, Minor (p. 147)

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  - Cinematic Arts, MFA (p. 151)
  - Film, BFA (p. 152)
  - Film, Video, Animation and New Genres, Minor (p. 155)

- Music (p. 156)
  - Advanced Study in Chamber Music, Graduate Certificate (p. 159)
  - Music Education, BFA: EC-A General Music (p. 163)
  - Music Education, BFA: EC-A Instrumental and General Music (p. 166)
  - Music, BA (p. 168)
  - Music, BFA: Collaborative Piano (p. 172)
  - Music, BFA: Guitar (p. 176)
  - Music, BFA: Music Composition and Technology (p. 180)
  - Music, BFA: Music History and Literature (p. 184)
  - Music, BFA: Piano (p. 188)
  - Music, BFA: Strings (p. 192)
  - Music, BFA: Versatile Voice (p. 196)
  - Music, BFA: Voice (p. 199)

  - Music Education, BFA: EC-A General Music (p. 163)
  - Music Education, BFA: EC-A Instrumental and General Music (p. 166)
  - Music, BA (p. 168)
  - Music, BFA: Collaborative Piano (p. 172)
  - Music, BFA: Guitar (p. 176)
  - Music, BFA: Music Composition and Technology (p. 180)
  - Music, BFA: Music History and Literature (p. 184)
  - Music, BFA: Piano (p. 188)
  - Music, BFA: Strings (p. 192)
  - Music, BFA: Versatile Voice (p. 196)
  - Music, BFA: Voice (p. 199)

  - Music Education, BFA: EC-A General Music (p. 163)
  - Music Education, BFA: EC-A Instrumental and General Music (p. 166)
  - Music, BA (p. 168)
  - Music, BFA: Collaborative Piano (p. 172)
  - Music, BFA: Guitar (p. 176)
  - Music, BFA: Music Composition and Technology (p. 180)
  - Music, BFA: Music History and Literature (p. 184)
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  - Music, BFA: Strings (p. 192)
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  - Music, BFA: Voice (p. 199)

- Theatre (p. 232)
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  - Theatre Practices, BA: Theatre Education (p. 237)
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  - Theatre, BFA: Performance (p. 241)
  - Theatre, BFA: Production (p. 246)
  - Theatre, Minor (p. 249)

Graduate Requirements

Refer to individual graduate program pages for specific requirements. For the Graduate School’s requirements, please refer to Graduate School Policies (p. 31).
Undergraduate Requirements

Admission

New Freshmen
New freshmen must meet the general University admission requirements (p. 16) in addition to specific department requirements. Admission to all music programs requires an audition and a theory placement examination. Admission to the Musical Theatre track of the Inter-Arts degree program requires a live audition interview. A portfolio of artworks is required by the Department of Art & Design. For details, please refer to the individual department sections of this catalog.

Transfer Students
Transfer students from other universities and colleges or UWM units are accepted by the Peck School of the Arts provided they meet the UWM admissions criteria and have a 2.0 cumulative GPA (on a 4-point scale). They must also meet the specific departmental audition requirements described above. Although a portfolio is not required for acceptance into the Department of Art & Design, the submission of a portfolio is helpful in evaluating a student’s work for advanced placement.

Second Bachelor’s Degree Candidates
Students with good scholastic records who wish to earn a second bachelor’s degree in the Peck School of the Arts must obtain the recommendation of the Peck School of the Arts department in which they wish to major before they can be accepted. Upon acceptance, students must earn in residence a minimum of 30 credits beyond the studies for the first major and must satisfy all curriculum requirements.

New Major Program
By choosing this program, students who have completed baccalaureate degrees at UWM or other accredited institutions may earn an additional major only. It is not necessary to complete all requirements for an additional baccalaureate degree or to observe the 30-credit-in-residence regulation. At present, the Departments of Art & Design, Dance, Film, and Music offer majors through this option.

Degree Requirements
Students must earn their last 30 credits in residence at UWM. Of this total, a minimum of 15 credits must be in advanced major subjects. Under extraordinary circumstances, a student may receive permission to earn a maximum of 9 credits of the last 30 credits at another college/university but must obtain the written approval of the Director of Student Services prior to enrollment in such courses.

Bachelor of Arts Degree in Animation, Art, Dance, Music, or Theatre
Requires a total of 120 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University’s General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

See the individual department sections in this catalog for additional information.

Bachelor of Fine Arts Degree in Art, Dance, Film, Music, or Theatre
Requires a total of 120-130 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University’s General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

Bachelor of Fine Arts Degree with Teacher Certification in Art or Music and Bachelor of Arts Degree in Theatre with Teacher Certification
The BFA degree in Art Education or Music Education requires a total of 130 credits; the BA degree in theatre with teacher certification requires a total of 120 credits. To receive these degrees students must:

1. Attain a minimum cumulative GPA of 2.75;
2. Fulfill all curriculum requirements of the School, of the departmental major, and the University’s General Education Requirements;
3. Fulfill the certification requirements in human relations (see School of Education section of this catalog), developmental reading, and exceptional education (see Teacher Certification Program (p. 75) description below for details and admission requirements);
4. Fulfill the Act 31 certification requirement regarding “specific attention to the history, culture, and tribal sovereignty of the federally recognized American Indian tribes and bands located in this state” through selected coursework. Consult with the Director of Student Services for specific courses; and
5. Fulfill residence requirements as described above.

Post-baccalaureate Teacher Certification Program
Offered in art, music, and theatre. All applicants should consult the appropriate department chairperson concerning requirements in these programs.

Teacher Certification Program - Peck School of the Arts
Requirements for Employment, Licensing, or Professional Organizations
Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

All PSOA teacher education students (art, music, theatre) are required to keep a portfolio of evidence to document satisfaction of PI 34 standards. Portfolio content is defined, evaluated, and reviewed by individual programs. Passing scores on the Praxis I and successful completion of K-12 required classes are required before admission to student teaching. Art, music, and theatre teacher education students are also required to
pass the content test (Praxis II) prior to student teaching. See specific program for more information.

Admission Requirements
All students should submit an application to the Director of Student Services and confer with the education area head of their department.

Art education students may apply to the program upon completion of 30 credits if they have fulfilled the freshman year foundation courses in art and the requirements listed below.

Music education majors may apply upon completion of 58 credits and junior standing and the requirements listed below.

Theatre teacher certification students may apply upon completion of the required 32-credit core in the major, junior standing, and the requirements listed below. In addition, theatre certification students must successfully pass an interview with theatre certification faculty.

All students must attain the following before making application to the teacher certification programs in art, music, and theatre:

Grade Point Average. 2.75.

Communication Competency
A grade of C or higher in one of the following: COMMUN 101 or COMMUN 103.

The communicative abilities of students remain under constant review as a factor for retention in the program. Students experiencing communication difficulty may be remanded for remedial work. Students who have satisfactorily completed an interpersonal course at another college or university may request an evaluation of their communication status through the Department of Communication.

English Composition Requirement
The English Composition Requirement is satisfied by earning a grade of C or higher in ENGLISH 102 or its equivalent, or by scoring 637 or better on the English Placement Test (or an appropriate score as determined by the Department of English on the English ACT examination).

Mathematical Skills Requirement
Must be demonstrated by achieving a placement code of at least 30 on the mathematics placement test, or by earning at least 3 credits with a grade of C or higher in MATH 103 (formerly MATH 106), MATH 105, MATH 175, or equivalent courses.

Pre-Professional Skills Requirement (PPSR)
Must earn scores in Reading-175, Math-173, Writing-174. Registration forms are available in the Peck School of the Arts Office of Student Services.

Developmental Reading Course Requirement
All teachers of special subjects (e.g., music, art, theatre) wishing to be certified by the State of Wisconsin (K-12) must complete one course in developmental reading at the elementary or secondary level.

At present, the Department of Teaching and Learning offers CURRINS 343, for those interested in the elementary level, and CURRINS 545, for those interested in the secondary level. Only one of these 3-credit courses is necessary to fulfill the requirement. This course may be applied toward the core curriculum requirement.

Exceptional Education Requirement
Persons applying for an initial license to teach any subject in the elementary and secondary schools of Wisconsin after July 1, 1981, must have completed at least 3 credits or the equivalent study of exceptional education to be eligible for a license. See the Art, Dance, Music, or Theatre Department sections for appropriate course requirements.

Student Teaching
Eligibility for student teaching is determined by admission to the Teacher Certification Program of the Peck School of the Arts, departmental recommendation, and completion of all prerequisite courses and any other departmental requirements.

In general, education methods courses are not transferable from other institutions. These courses must be taken in residence. Other criteria include removal of all incompletes in required courses, compliance with the Human Relations Requirement, satisfactory class standing, health clearance, recommendation by the department, and submission of the student teacher application.

Applications to student teach during the first semester are due March 15; during the second semester, October 15. Application blanks are available in, and must be filed with, the Peck School of the Arts Office of Student Services. No applications will be accepted after these dates.

Teacher's License Applications
Students eligible for graduation are not automatically recommended for certification to the State Department of Public Instruction. They must first be approved for certification by their departments.

After all requirements for the BFA or BA degree with Teacher Certification or a post-baccalaureate degree certification program are completed, and the departmental approval is obtained, a student may apply for a state teacher's license. A Wisconsin Credential Application form is available from:

Peck School of the Arts Office of Student Services
UWM
P.O. Box 413
Milwaukee, Wisconsin 53201

or

Wisconsin Department of Public Instruction
126 Langdon Street
Madison, Wisconsin 53702

The Department of Public Instruction conducts a criminal record check of each applicant for a teaching license. Based on this information, an applicant may be denied a license even if recommended for certification by the University.

Declaration of Submajor
In most instances, after two years of basic preparatory courses in the major, students choose an area of specialization within their respective departments, known as a submajor. Students must declare a submajor after they have accumulated 45 to 75 credits in order to assure completion of the appropriate curriculum requirements for graduation.
Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations

Laptop Requirement in Peck School of the Arts Degree Programs
All students entering the following degree programs/areas in the Peck School of the Arts are required to participate in the PSOA Laptop Program:

- BFA/BA Art & Design;
- BFA/BA Dance;
- BFA Film;
- BFA Music Composition and Technology Track in the Department of Music;
- BFA Production and BA Theatre Education programs in the Department of Theatre.

This includes students transferring from an institution external to UWM or from another UWM program, school, or college. Requirements will include either the purchase of or regular access to a laptop. The laptop must be equipped to enable students to effectively perform all required coursework, including that accomplished during class time. For additional information, please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop (http://uwm.edu/arts/apply/laptop/).

Academic Regulations
For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Policies (p. 22).

Semester Credit Load
A full-time Peck School of the Arts student is one who takes a minimum of 12 credits per semester. Normally, Peck School of the Arts students are not permitted to carry more than 18 credits per semester. Students who have a cumulative GPA of 3.0 or higher may, with the permission of the Peck School of the Arts Office of Student Services, carry up to 21 credits per semester.

Program Changes
All program changes must be signed by the instructor and the Peck School of the Arts Office of Student Services.

No studio or performance courses may be dropped after the second week of classes without the written approval of the instructor and the department chairperson. Certain other courses may require this approval also and these will be indicated in the semester’s Schedule of Classes.

Audit Courses
No studio or performance courses may be audited.

Independent Study
Under special conditions, juniors and seniors are permitted to take courses in independent study. For regulations on independent study, see the departmental advisor.

Special Opportunities

Honors Program
The Peck School of the Arts confers a Bachelor of Fine Arts Honors degree upon those students who complete the University Honors Program. The "Honors" designation appears on both the diploma and transcript.

This program offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences to qualified students who desire more intensive and individualized studies. Application forms and further information are available from the Honors College (p. 37), Honors House 154, (414) 229-4658.

Foreign Study
The Peck School of the Arts looks favorably upon foreign educational experiences and encourages students to seek study abroad at accredited institutions. Every effort will be made to integrate such courses into a student’s major program. Students should consult the departments involved prior to registration at a foreign university.

Periodically, the Department of Art & Design offers credit courses in foreign countries under the direction and instruction of Department of Art & Design faculty members.

Administration
Scott Emmons
Dean
Robert Grame
Associate Dean
James Burmeister
Interim Assistant Dean
Amanda Obermeyer
Assistant Dean for Business Administration
Louis Molina
Assistant Dean for Student Services
Rebecca Christman
Assistant to the Dean

Contact Information
Peck School of the Arts Office of Student Services
Phone: (414) 229-4763
psoa-advising@uwm.edu
http://uwm.edu/arts/advising/

Art & Design
Art & Design at UW-Milwaukee develops creative thinkers, artist professionals, and cultural leaders through a cross-disciplinary curriculum that balances innovation, traditional craftsmanship, critical thinking, and scholarly civic engagement. Committed to Milwaukee’s diverse urban communities, our programs emphasize activism and thinking with the arts. Our faculty is comprised of active artists who promote collaborative, interdisciplinary, and entrepreneurial thinking and practice across the department, university, community, and beyond!
Programs

- Art and Design, Minor: Design (p. 83)
- Art and Design, Minor: Photography (p. 83)
- Art and Design, Minor: Studio (p. 84)
- Art Education, BFA (p. 85)
- Art Education, MS (p. 88)
- Art, BA: Community Arts (p. 89)
- Art, BA: Design Studies (p. 92)
- Art, BA: Digital Fabrication and Design (p. 95)
- Art, BA: Studio Arts (p. 98)
- Art, BFA: Ceramics (p. 101)
- Art, BFA: Design and Visual Communication (p. 104)
- Art, BFA: Digital Studio Practice (p. 107)
- Art, BFA: Fibers (p. 111)
- Art, BFA: Jewelry and Metalsmithing (p. 114)
- Art, BFA: Painting and Drawing (p. 117)
- Art, BFA: Photography and Imaging (p. 120)
- Art, BFA: Print and Narrative Forms (p. 124)
- Art, BFA: Sculpture (p. 127)
- Art, MA: Design Entrepreneurship and Innovation (p. 130)
- Art, MA: Studio Art (p. 132)
- Art, MFA (p. 133)
- Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts, Department of Art and Design) (p. 134)
- Community Arts, Undergraduate Certificate (p. 135)
- Digital Fabrication and Design, Undergraduate Certificate (p. 136)

Graduate Requirements

Refer to the individual graduate program for specific requirements. For the Graduate School’s requirements, please refer to Graduate School Policies (p. 31)

Undergraduate Requirements

Laptop Requirement

Laptops are required for all Art & Design programs (http://uw.edu/arts/apply/laptop/). The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

Bachelor of Fine Arts (Studio Art)

This undergraduate degree prepares students for entrance into professional art fields. Once students meet the 36-credit Art-Intended requirements, they are admitted to the Art & Design program. In addition to satisfying the core curriculum, art students select studio courses from both 2D and 3D disciplines, take required art history courses, choose studio electives, and begin satisfying the requirements of their declared art area concentration.

A choice of curricula is offered to permit students to concentrate in Ceramics, Digital studio practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography and Imaging, Print and Narrative Forms, or Sculpture. Students must complete a minimum of 24 credits in their area of concentration but may take more by choosing additional studio electives in their area.

In order to graduate, students must complete two 3-credit critical thinking courses and a 4-credit capstone: ART 604 and ART 605. Students must complete a total of 85 credits of art to graduate with a BFA (Studio Art).

The Bachelor of Fine Arts (Studio Art) degree requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core Curriculum (includes 12 credits Art History and 9</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>credits PSOA Arts Distribution)</td>
<td></td>
</tr>
<tr>
<td>First Year</td>
<td>Program</td>
<td>15</td>
</tr>
<tr>
<td>Art and Design</td>
<td>Courses</td>
<td>63</td>
</tr>
<tr>
<td>Critical</td>
<td>Thinking</td>
<td>6</td>
</tr>
<tr>
<td>BFA Exhibition</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>130</td>
</tr>
</tbody>
</table>

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Bachelor of Fine Arts (Studio Art) in Design and Visual Communication

The Bachelor of Fine Arts in Design and Visual Communication degree requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core Curriculum (includes 12 credits Art History and 9</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>credits PSOA Arts Distribution)</td>
<td></td>
</tr>
<tr>
<td>First Year</td>
<td>Program</td>
<td>15</td>
</tr>
<tr>
<td>Art and Design</td>
<td>Courses</td>
<td>63</td>
</tr>
<tr>
<td>Critical</td>
<td>Thinking</td>
<td>6</td>
</tr>
<tr>
<td>BFA Exhibition</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>130</td>
</tr>
</tbody>
</table>

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Bachelor of Fine Arts (Art Education)

The Art Education program requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core Curriculum (includes 12 credits Art History, 9</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>credits Education, and 6 credits PSOA Arts Distribution)</td>
<td></td>
</tr>
<tr>
<td>First Year</td>
<td>Program</td>
<td>15</td>
</tr>
<tr>
<td>Required</td>
<td>Studio Courses</td>
<td>39</td>
</tr>
<tr>
<td>Critical</td>
<td>Thinking</td>
<td>3</td>
</tr>
<tr>
<td>BFA Education</td>
<td>Courses</td>
<td>28</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>130</td>
</tr>
</tbody>
</table>
12 cr Art History are included in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER. 9 cr School of Education courses are included in the Core Curriculum (See academic advisor). PSOA Arts Distribution for Art Education is 6 credits that the student must take within PSOA, outside of Art & Design, in two of the four other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Art Education students are required to take the following Art Studio courses as part of these 39 credits: ART 201, ART 342, 18 cr of 200 level courses reflecting 2D, 3D studio and digital studio experiences, and 12 cr of upper-level studios to create further concentration in a studio area of choice. See academic advisor for 2D, 3D, and digital course designations at the 200 level, and for upper-level studios.

Bachelor of Arts (Art)
The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core Curriculum (includes 12 credits Art History and 9 credits PSOA Arts Distribution)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>First Year Program</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Art and Design Courses</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Directed Electives</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Critical Thinking</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BA Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Area of Concentration Requirements and Enrollment Management
In order to maintain the highest quality of service to our students, all areas (Ceramics, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography and Imaging, Print and Narrative Forms, Sculpture, Design and Visual Communication, and Art Education) may select their own enrollment management mechanisms. Options available to areas include portfolio review, gateway courses, registration prioritizing (ex: "seniors only" and/or "majors only" courses), higher GPA for the area of concentration, or other appropriate mechanisms. Students who successfully matriculate as BFA degree candidates should make themselves familiar with the requirements of their chosen area (as outlined in the undergraduate catalog). Students also should discuss area requirements with area faculty to ensure that they understand fully what will be required of them.

Art & Design Graduate Admission Requirements
Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admission and Cost (p. 20) for the graduate school's admission requirements, and to the specific program for the program's admission requirements.

Art & Design Undergraduate Admission Requirements
To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15).

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions
Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

Advancement to Major
Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better, and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>
Apartment Process

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration. Enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Art Education Advancement to Major

See the Art Education, BFA (p. 86) page for the Art Education advancement to major requirements.

Art Education Certification Requirements

Following admission to the Art Education Program, and successful completion of the specified Art Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the field experience requirement;
3. maintain a 2.75 cumulative GPA or higher while being in the program;
4. maintain a 3.0 or higher in content area courses (Art & Art History) or pass the Praxis II Art Content Exam;
5. successfully complete student teaching; and
6. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a Teaching Portfolio (see description below): The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The required reflections, artifacts, statements, and assessment composing this portfolio will be compiled mostly as a part of their major two art education methods classes (ART ED 327 and ART ED 328). Fewer documents will be produced during their student teaching capstone classes (ART ED 425 and ART ED 426). Some of the documents that this portfolio includes are: copy of current resume, teaching philosophy, reflections on the Ten Wisconsin Teaching Standards, artifacts supporting the reflections showing your work as a teacher and your students’ work, lesson plans written and taught in field experiences, field experience assessments, and clinical assessments during student teaching.

7. Teacher Performance Assessment, EdTPA (see explanation below): This is a performance-based test in which student teachers plan, instruct, and assess a visual arts lesson plan for K-12 following the requirements outlined in the EdTPA Handbook. Among these requirements student teachers must show strong curriculum based on four types of objectives, the use of academic language derived from the research of art content and contexts, and cohesive sequencing of art appreciation, artmaking, and art critique. Along with all this, students should demonstrate a theoretical use of visual art learning theory, elaborated skills in the documentation of in-progress and finalized student work, and an ability to reflect on their own teaching, as a way to inform the following steps in their instructional sequence.

Program-to-Program Articulation Agreements

The Department of Art & Design has Program-to-Program Articulation Agreements with several regional and international institutions, including the following agreements with the Milwaukee Area Technical College’s (MATC) Graphic Design Associate Degree Program, Waukesha County Technical College’s (WCTC) Graphic Design Associate Degree Program, and with the Hubei University of Technology in Wuhan, China.

MATC Graphic Design Associate Degree and UWM Bachelor of Arts (Art) in Design Studies Degree Program

MATC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSOA A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.50 GPA from MATC and need to complete the OWC-A and QL-A requirements for UWM while at MATC. It’s advisable that students also complete the Social Sciences, Natural Sciences, and Cultural Diversity GER requirements as part of their MATC Graphic Design Associate Degree. Students should select from approved GER courses (SS, NS, NS+, CD/8). Students need to complete the UWM Foreign Language proficiency: two years of the same Foreign Language in High School, or two semesters of Foreign Language at MATC or UWM.

MATC students will enter the Department of Art & Design with up to 72 credits, and will take 58 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within another Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 422</td>
<td>Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Art Studio Elective</td>
<td></td>
<td>2</td>
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<tr>
<td></td>
<td>Credits</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 309</td>
<td>Issues in Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 524</td>
<td>Professional Practice in Design</td>
<td>3</td>
</tr>
</tbody>
</table>
WCTC Graphic Design Degree and UWM Bachelor of Arts (ART) in Design Studies Degree Program

WCTC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSOA A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.5 GPA from WCTC and need to complete the prerequisite to OWC-A (801-195) and QL-A (804-118) requirements for UWM while at WCTC. It’s advisable that students also complete the Social Sciences requirements as part of their WCTC Graphic Design Associate Degree. Students should select from approved GER courses (SS). Students need to complete the UWM Foreign Language proficiency: 2 years of the same Foreign Language in High School, or 2 semesters of Foreign Language at WCTC or UWM.

WCTC students will enter the Department of Art & Design with up to 67 credits, and will take 56 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within other Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

Four-semester course sequence for completion of the WCTC/UWM BA in Design Studies at UWM:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 422</td>
<td>Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
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</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
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<td>GER Natural Science</td>
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<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Year 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 60

HUBEI 3+1 Bachelor of Arts (ART) Degree Programs

The Department of Art & Design and the Hubei University of Technology in Wuhan, China, have created a unique program for the students at Hubei University to finish their BA degree at UWM. There are two 3+1 BA tracks: Design Studies and Digital Fabrication and Design.

Laptops are required for both 3+1 BA programs. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

Hubei 3+1 BA in Design Studies

Students will enter UWM with 90 credits towards the BA in Design Studies (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design Studies follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional: 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EAP course (3 cr.)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art Directed Elective (3 cr.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EAP 118</td>
<td>Advanced College Writing in English as a Second Language/English 101</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ART 321</td>
<td>Design and Visual Communication I</td>
<td>3</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 427</td>
<td>Advanced Design Workshop: (Design Studies BA Supervision)</td>
<td>1</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>
Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.

HUBEI 3+1 BA in Design and Digital Fabrication

Students will enter UWM with 90 credits towards the BA in Digital Fabrication and Design (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design and Digital Fabrication follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 4</strong></td>
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<tr>
<td><strong>Summer</strong></td>
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<td>Optional:</td>
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<tr>
<td>EAP course (3 cr.)</td>
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<tr>
<td>Art Directed Elective (3 cr.)</td>
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<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EAP 118</td>
<td>Advanced College Writing in English as a Second Language/English 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
<td>3</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ART 612</td>
<td>Senior Project in Digital Studio Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</tbody>
</table>

Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Balsley</td>
<td>Professor</td>
<td>MFA</td>
<td>Northern Illinois University, DeKalb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kimberly Beckmann</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>Cranbrook Academy of Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adream Blair</td>
<td>Associate Professor</td>
<td>MA, MGD</td>
<td>North Carolina State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marna Brauner</td>
<td>Professor</td>
<td>MFA</td>
<td>California College of Arts and Crafts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Burkert</td>
<td>Professor</td>
<td>MS</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kyoun Ae Cho</td>
<td>Professor, Chair</td>
<td>MFA</td>
<td>Cranbrook Academy of Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allison Cooke</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kimberly Cosier</td>
<td>Professor, Associate Dean</td>
<td>PhD</td>
<td>Indiana University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christopher Davis-Benavides</td>
<td>Professor</td>
<td>MFA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raoul Deal</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>National School of Plastic Arts, UNAM (San Carlos)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lee Ann Garrison</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Grame</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>Kansas State University</td>
<td></td>
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</tr>
<tr>
<td>Karen Gunderman</td>
<td>Professor</td>
<td>MFA</td>
<td>University of Michigan-Ann Arbor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rolf Hickman</td>
<td>Professor</td>
<td>MEd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yevgeniya Kaganovich</td>
<td>Professor</td>
<td>MFA</td>
<td>State University of New York at New Paltz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kay Knight</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>Washington University, St. Louis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles Kraus</td>
<td>Professor</td>
<td>MFA</td>
<td>Southern Illinois University, Carbondale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frank G. Lutz</td>
<td>Professor</td>
<td>MFA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jessica Meuninck-Ganger</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>Minneapolis College of Art and Design</td>
<td></td>
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</tr>
<tr>
<td>Lisa Moline</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joseph Mougel</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>William Nichols</td>
<td>Professor</td>
<td>MFA</td>
<td>University of Illinois-Urbana</td>
<td></td>
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<tr>
<td>Josie Osborne</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Narendra Patel</td>
<td>Professor</td>
<td>MFA</td>
<td>Cranbrook Academy of Art</td>
<td></td>
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<tr>
<td>Stephen Pevnick</td>
<td>Professor</td>
<td>MFA</td>
<td>Washington University, St. Louis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adolph Rosenblatt</td>
<td>Professor</td>
<td>BFA</td>
<td>Yale School of Art and Architecture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Contact Information
Peck School of the Arts Office of Student Services

Phone: (414) 229-4763
psoa-advising@uwm.edu
http://uwm.edu/arts/advising/

Art and Design, Minor: Design

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Requirements

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>or ART 106</td>
<td>Art Survey</td>
<td></td>
</tr>
</tbody>
</table>

Required 200-level Intro

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 222</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
</tbody>
</table>

300-level and Above

Select 3 credits

Total Credits 18

1 Select 3 credits of 300-level or above electives in Design and Visual Communication in consultation with Art & Design Undergraduate Advisor and Area Head for Design and Visual Communication. Design minor students are not eligible to take Design and Visual Communication Required Core Courses.

Advising

Location: Theatre 120

Art and Design, Minor: Photography

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Requirements

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 100</td>
<td>American Art and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td></td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td></td>
</tr>
<tr>
<td>ART 150</td>
<td>Multicultural America</td>
<td></td>
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<tr>
<td>ART 152</td>
<td>Photography Survey</td>
<td></td>
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Required 200-level Intro

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>3</td>
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</table>

300-level and Above
Select three of the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 350</td>
<td>Visualizing Ideas in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 357</td>
<td>Studio Lighting &amp; Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ART 358</td>
<td>Medium and Large Format Photography (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 451</td>
<td>Special Topics in Photography:</td>
<td>3</td>
</tr>
<tr>
<td>ART 452</td>
<td>Contemporary Issues in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 454</td>
<td>Narrative Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 456</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 458</td>
<td>Photographic Materials and Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 18

1 Select 9 credits of 300-level or above electives in Photography and Imaging from the list, in consultation with Art & Design Undergraduate Advisor and Area Head for Photography and Imaging. Students must be aware of the prerequisites for the 300+ level courses they wish to take.

Advising

Location: Theatre 120  
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)  
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/. (http://uwm.edu/arts/advising/)

Art and Design, Minor: Studio

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Requirements

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Part I</strong></td>
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<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Part II

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 100</td>
<td>American Art and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art &amp; Design Lecture Series</td>
<td>3</td>
</tr>
</tbody>
</table>

Tracks

Select one of the following tracks:  

2D Track:  
ART 108 2D Concepts

3D Track:  
ART 109 3D Concepts

Digital Track:  
ART 118 Digital Arts: Culture, Theory, Practice

300-level and Above

Select 3-6 credits from the following tracks: 1  

2D Track:
ART 243 Introduction to Painting
ART 253 Introduction to Photography
ART 291 Introduction to Print and Narrative Forms

3D Track:
ART 231 Introduction to Fibers
ART 261 Introduction to Sculpture
ART 271 Introduction to Jewelry and Metalsmithing
ART 278 Introduction to Industrial Craft
ART 281 Introduction to Ceramics

Digital Track:
ART 212 Introduction to Digital Studio: A/V Strategies
ART 221 Introduction to Design
ART 277 Design for Digital Fabrication

Total Credits: 15-21

1 200-level courses are grouped according to track, but students are free to take what interests them as long as they meet the prerequisites.

2 Students in all three Studio tracks select 3-6 credits of 300-level and above Art courses in consultation with the Art & Design Undergraduate Advisor and the Concentration Area Head (Ceramics, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography, Print and Narrative Forms, Sculpture).
advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Art Education, BFA

This undergraduate degree prepares students to teach art both in schools and in the community. Once students are admitted to the Art & Design program, they can apply to the Art Education program through ART ED 227 (see Advance to Major (p. 86)). In addition to satisfying the core curriculum, art education students also must take required art history and critical thinking courses, and three education courses. They are required to take studio courses from both 2D and 3D disciplines, and to focus their choices of studio electives to develop an emphasis in an area. In addition to top-notch studio preparation in a wide range of media, our students focus on urban issues and art education for social justice. Theory is integrated into practical early field and student teaching experiences. Throughout the program, assessment is aligned with the requirements for licensure under “PI-34,” the state law governing certification in Wisconsin. Students who demonstrate mastery of the knowledge, skills, and dispositions of professional educators during student teaching are recommended to the Department of Public Instruction in the State of Wisconsin for a PK4-12 teaching license.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 85)</td>
<td></td>
<td>45</td>
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<tr>
<td>First Year Program (p. 85)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 85)</td>
<td></td>
<td>42</td>
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<tr>
<td>Major Requirements (p. 86)</td>
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<td><strong>Total Credits</strong></td>
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</table>

University Core

The minimum number of credits required to complete the Bachelor of Fine Arts in Art Education is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>General Education Requirements</strong> ¹</td>
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</tr>
<tr>
<td><strong>Competencies</strong> ²</td>
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<tr>
<td>English Parts A &amp; B ²</td>
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<td></td>
</tr>
<tr>
<td>Math Parts A &amp; B ²</td>
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</tr>
<tr>
<td>Foreign Language ²</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Distribution Requirements</strong> ¹</td>
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</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Science</strong> ³</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Natural Science (1 course with lab) 6
Cultural Diversity ²

Electives

Advanced ARTHIST course 6
Select 2 arts areas outside department 6
General Elective (outside PSOA) 3
General Elective (any area outside of Art) 3

Education Courses

ED PSY 330   Introduction to Learning and Development | 3       |
CURREN 343   Teaching of Reading | 3       |
or CURREN 545 Reading in the Content Areas: Middle, Junior, and Senior High School | 3       |
Select one of the following: | 3       |
EXCEDUC 300   The Exceptional Individual | 3       |
EXCEDUC 531   Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language | 3       |
EXCEDUC 605   Child, Learner, Disabilities | 3       |
**Total Credits** | 45      |

¹ Learn more about the General Education Requirements (p. 29).
² Credit may be utilized in required curriculum areas.
³ Can be satisfied with COMMUN 101 and ACT 31.

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 cumulative GPA required:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101    Drawing I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 106   Art Survey</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 108   2D Concepts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 109   3D Concepts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 118    Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</table>

Art & Design Core

Studio Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201    Drawing II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 342   Introduction to Figure Drawing</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select 21 credits of the following:</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>ART 212    Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 221    Introduction to Design</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 231    Introduction to Fibers</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 243    Introduction to Painting</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 253    Introduction to Photography</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 261    Introduction to Sculpture</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 271    Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 277    Design for Digital Fabrication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 281    Introduction to Ceramics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 291    Introduction to Print and Narrative Forms</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

¹ Learn more about the General Education Requirements (p. 29).
² Credit may be utilized in required curriculum areas.
³ Can be satisfied with COMMUN 101 and ACT 31.
Studio Electives (choose 12 credits)  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| ART 309 | Issues in Contemporary Art:  
| or ART 509 | Art & Design Seminar. | 3       |

Total Credits  

See academic advisor.

## Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 227</td>
<td>Introduction to Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 228</td>
<td>Learning Processes in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 327</td>
<td>Art Education Theory and Practice: Elementary</td>
<td>6</td>
</tr>
<tr>
<td>ART ED 328</td>
<td>Art Education Theory and Practice: Secondary</td>
<td>6</td>
</tr>
<tr>
<td>ART ED 425</td>
<td>Student Teaching in Art I - Elementary Levels</td>
<td>5</td>
</tr>
<tr>
<td>ART ED 426</td>
<td>Student Teaching in Art II: Secondary Levels</td>
<td>5</td>
</tr>
</tbody>
</table>

Year 1  

<table>
<thead>
<tr>
<th>Fall (Includes OWC-A and GL-A Requirements)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
</tr>
</tbody>
</table>

Select one of the following:  

- 200-level studio in Art  
- University Core 1  
- University Core 1  

Year 2  

| Fall (Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Admission to the Pre-Art Ed Program requires completion of the 30-credit First Year Program and two 200-level studio courses. Select one of the following:  
| 200-level studio in Art  
| ART ED 227 | Introduction to Art Education | 3       |

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 425</td>
<td>Student Teaching in Art I - Elementary Levels</td>
</tr>
<tr>
<td>ART ED 426</td>
<td>Student Teaching in Art II: Secondary Levels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
</tr>
</tbody>
</table>

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum.  
2 The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

## Art & Design Undergraduate Admission Requirements

See the Admission section (p. 79) of the Art & Design department page for undergraduate admission requirements.

## Art Education Advancement to Major

Art Ed Intended designation is given to all students intending to pursue the BFA (Art Education). Art Ed Intended students will get priority registration in art courses over non-art majors. Art Ed Intended students
may apply to this program upon completion of 30 art credits if the following requirements have been fulfilled:

1. First Year Program courses in art (see Art Education BFA requirements (p. 85)).
2. Oral and Written Communication Competency (Part A).
3. Quantitative Literacy Competency (Part A).
5. 2.75 cumulative grade point average (GPA).
6. Dept. of Public Instruction (DPI) Act 31 requirement. (This can be met by taking the Act 31 Workshop, HIST 263, AIS 203, ANTHRO 213, or ENGLISH 276, subtitled "Literature, History, and Sovereignty of Upper Midwest Indians" only.)
7. Completion of ART ED 227 Introduction to Art Education, with a B or higher.

After successful completion of the above, students should contact the Peck School of the Arts Student Services Office by April 15 to get permission to enroll in ART ED 327.

For further details and procedures, see the teacher certification degree requirements (p. 74) on the Peck School of the Arts catalog page.

**Art Education Certification Requirements**

Following admission to the Art Education Program, and successful completion of the specified Art Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the field experience requirement;
3. maintain a 2.75 cumulative GPA or higher while being in the program;
4. maintain a 3.0 or higher in content area courses (Art & Art History) or pass the Praxis II Art Content Exam;
5. successfully complete student teaching; and
6. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a Teaching Portfolio (see description below):
   - The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The required reflections, artifacts, statements, and assessment composing this portfolio will be compiled mostly as a part of their major two art education methods classes (ART ED 327 and ART ED 328). Fewer documents will be produced during their student teaching capstone classes (ART ED 425 and ART ED 426). Some of the documents that this portfolio includes are: copy of current resume, teaching philosophy, reflections on the Ten Wisconsin Teaching Standards, artifacts supporting the reflections showing your work as a teacher and your students’ work, lesson plans written and taught in field experiences, field experience assessments, and clinical assessments during student teaching.
7. Teacher Performance Assessment, EdTPA (see explanation below):
   - This is a performance-based test in which student teachers plan, instruct, and assess a visual arts lesson plan for K-12 following the requirements outlined in the EdTPA Handbook. Among these requirements student teachers must show strong curriculum based on four types of objectives, the use of academic language derived from the research of art content and contexts, and cohesive sequencing of art appreciation, artmaking, and art critique. Along with all this, students should demonstrate a theoretical use of visual art learning theory, elaborated skills in the documentation of in-progress and finalized student work, and an ability to reflect on their own teaching, as a way to inform the following steps in their instructional sequence.

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Advising**

**Location:** Theatre 120
**Reception Hours:** 9AM-4PM Monday through Friday (closed on university holidays)
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.
Art Education, MS

The Master of Science (MS) in Art Education is a 30-credit program with advanced work in art education and the studio arts. The MS with a major in art education offers two separate program options. Both options require applicants to have completed a bachelor’s degree in the visual arts or a related field, and to be admitted to the University of Wisconsin-Milwaukee Graduate School. Additional background requirements depend on the option the applicant intends to pursue, as follows:

• Pre K-12 Art Education Option is designed to enhance the expertise of practicing teachers. The program combines theory, practice, and research in an effort to develop leaders as teachers-artists-researchers in the field.

• Community-Based Art Education Option is designed for those who desire careers as educators in community art programs, including museums. The program looks at theories and practices that have impacted community-based art education.

The Department’s facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts’ Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students, depending on funding. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

Students applying for admission to the three graduate programs in Art and Design, should note these application deadlines:

• For Fall admission to the MS graduate programs in Art Education, the Graduate School recommends completing the online application one year in advance of intended enrollment (check http://uwm.edu/arts/art-and-design/graduate/ for more specific information) with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application (https://graduateschool-apply.uwm.edu/) page by February 1. If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

The following materials are required and must be submitted with application:

1. An example of writing skills— appropriate examples include: a paper presented at a professional meeting, an art curriculum guide, a research paper, or a published article.

2. A digital portfolio of applicant’s original work (minimum 10, maximum 20 images) and, if an experienced teacher, the work of one’s students (minimum 10, maximum 20 images). Explanatory or descriptive annotations must accompany images.

3. Three (3) letters of recommendation that provide insight into your background as artist and educator.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. Upon admission to the program, the student is expected to satisfy deficiency requirements within three enrolled semesters. The Graduate School and the Office of Graduate Studies in Art and Design monitor the deficiencies. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

The minimum requirement for the MS in Art Education degree is 30 graduate credits, 6 credits of which must be in foundations in art education, 9 credits in current topics and thematically related studio workshops, and 6 credits in thesis development. The student, in consultation with the major professor, is responsible for also planning 9 additional credits (minimum) in a chosen program of study in art education with a specific focus on Pre K-12 or community environments. Please refer to Master of Science in Art Education Handbook for further information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 920</td>
<td>Research Methods in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 830</td>
<td>Teaching Art With Works of Art</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 910</td>
<td>Seminar in Art Education</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current Topics and Thematically Related Studio Workshops (9 credits)</td>
<td></td>
</tr>
</tbody>
</table>
teaching strategy or curricular model that is reported on in a written
written thesis that emphasizes scholarly research; or an applied study
thesis. Two thesis options are available: a thesis to complete their degree. All MS in Art Education students must develop, present, and defend
degree graduate student, subject to transfer credit requirements and
Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum
of 12 graduate credits earned at another institution, or as a UWM non-
degree graduate student, subject to transfer credit requirements and
department approval.

Thesis

All MS in Art Education students must develop, present, and defend
a thesis to complete their degree. Two thesis options are available: a written thesis that emphasizes scholarly research; or an applied study
that includes the development and implementation of a significant
teaching strategy or curricular model that is reported on in a written

Additional Requirements

Major Professor as Advisor

Immediately upon admission, the graduate student must contact the
Coordinator of Graduate Programs in Art and Design for initial advising
and aid in selection of a major professor from the faculty of the Art
Education area.

Upon completion of 9 graduate credits, each student must make
arrangements for a graduate faculty member in the Art Education Area to serve as the major professor and must notify the Department of Art and
Design Office of Graduate Studies of that professor’s willingness to serve in such a capacity.

Immediately thereafter, each student, in consultation with the major
professor, must organize a thesis committee. The committee should consist of the major professor from art education, another faculty
member from art education, and one additional faculty member,
supporting the major area of concentration, for a minimum of three
total. The additional faculty member may come from outside art
education, outside the Department of Art and Design, or outside of the
university. Members from outside the university community must have
credentials that further a student’s research agenda and must be chosen
in consultation with the major professor.

If the student’s major professor takes a leave of absence, receives a
sabbatical, or leaves the university, the student should contact the Office
of Graduate Studies in Art and Design for advice in selecting a new major
professor.

Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum
of 12 graduate credits earned at another institution, or as a UWM non-
degree graduate student, subject to transfer credit requirements and
department approval.

Thesis

All MS in Art Education students must develop, present, and defend
a thesis to complete their degree. Two thesis options are available: a written thesis that emphasizes scholarly research; or an applied study
that includes the development and implementation of a significant
teaching strategy or curricular model that is reported on in a written

Analysis

The Bachelor of Arts (Art) degree requires a total of 120 credits for
graduation distributed as follows:

University Core

The minimum number of credits required to complete the Bachelor of
Arts is 120; the minimum number of credits required to complete the
Bachelor of Fine Arts is 130. Students who need background preparation

ART ED 801 Seminar in Urban Education and the Visual Arts 3
ART ED 489 Art Education Workshop: 1-3
ART ED 830 Teaching Art With Works of Art 3
ART ED 920 Research Methods in Art Education 3
ART ED 810 Curricular Designs for Art Instruction 3
ART ED 910 Seminar in Art Education: 3
ART 904 Seminar In Art-Unique Topics: 3
ART 901 Seminar in Art-Philosophy and Concepts 3

Focus Area Requirements and Thesis (15 credits)

Focus Area (9 credits)

Choose additional courses in consultation with major professor
that specifically focus on pre K-12 or community environments.

Thesis (6 credits)

ART ED 990 Master’s Thesis 1-3

requirements

Master’s Thesis

Bachelor of Fine Arts is 130. Students who need background preparation

Bachelor of Arts (Art) degree requires a total of 120 credits for
graduation distributed as follows:

University Core

The minimum number of credits required to complete the Bachelor of
Arts is 120; the minimum number of credits required to complete the
Bachelor of Fine Arts is 130. Students who need background preparation

ART ED 801 Seminar in Urban Education and the Visual Arts 3
ART ED 489 Art Education Workshop: 1-3
ART ED 830 Teaching Art With Works of Art 3
ART ED 920 Research Methods in Art Education 3
ART ED 810 Curricular Designs for Art Instruction 3
ART ED 910 Seminar in Art Education: 3
ART 904 Seminar In Art-Unique Topics: 3
ART 901 Seminar in Art-Philosophy and Concepts 3

Focus Area Requirements and Thesis (15 credits)

Focus Area (9 credits)

Choose additional courses in consultation with major professor
that specifically focus on pre K-12 or community environments.

Thesis (6 credits)

ART ED 990 Master’s Thesis 1-3

requirements

Master’s Thesis

Bachelor of Fine Arts is 130. Students who need background preparation

Bachelor of Arts (Art) degree requires a total of 120 credits for
graduation distributed as follows:

University Core

The minimum number of credits required to complete the Bachelor of
Arts is 120; the minimum number of credits required to complete the
Bachelor of Fine Arts is 130. Students who need background preparation
courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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<tr>
<td></td>
<td><em>Competencies</em></td>
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<td>English Parts A &amp; B</td>
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<tr>
<td></td>
<td>Math Parts A &amp; B</td>
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<tr>
<td></td>
<td>Foreign Language</td>
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</tr>
<tr>
<td></td>
<td><em>Distribution Requirements</em></td>
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<tr>
<td></td>
<td>ARTHIST 101 Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Science</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced ARTHIST course</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 3 arts areas outside Art and Design</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits in an arts area</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits outside Peck School of the Arts</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
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</tr>
</tbody>
</table>

1. Learn more about the General Education Requirements (p. 29).
2. Credit may be utilized in required curriculum areas.

**First Year Program**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>2.5 cumulative GPA required:</strong></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
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<td>ART 108</td>
<td>2D Concepts</td>
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<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

**Degree Requirements**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
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</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>3</td>
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<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

**Major Requirements**

Students in the Community Arts track are required to complete the 15-credit Cultures and Communities certificate program (p. 829). Those credits can be counted as part of the University Core or as BA Directed Electives as desired in consultation with advising.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>6</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
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<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
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<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms (subtitle)</td>
<td>5</td>
</tr>
<tr>
<td>ART ED 227</td>
<td>Introduction to Art Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Introductory Studios**

Select 6 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Plan of Study**

Recommended Four-Year Sequence in Community Arts

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
</tr>
<tr>
<td>University Core</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
</tr>
<tr>
<td>Directed Elective</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td>3</td>
</tr>
<tr>
<td>Semester</td>
<td>Year 1</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>Fall</td>
<td>University Core 1</td>
</tr>
<tr>
<td></td>
<td>Directed Elective</td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</td>
<td></td>
</tr>
</tbody>
</table>

| 200-level studio in Art | 3 |
| 200-level studio in Art | 3 |
| ARTHIST 101 Ancient and Medieval Art and Architecture 3 | 3 |
| 150 Multicultural America (any discipline) | 3 |
| University Core 1 | 3 |

**Year 3**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>300-level and above Studio Concentration</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>300-level and above Studio Concentration</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>300-level and above Studio Concentration</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td>3</td>
</tr>
<tr>
<td>ART 406 Community Arts II</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 120 |

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2. The 30 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest. Courses required to satisfy the Cultures and Communities Certificate (p. 829) can be part of the Directed Electives or University Core. 150 Multicultural America is a prerequisite for ART 306, and is recommended as a Directed Elective.

3. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

**Art & Design Undergraduate Admission Requirements**

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

**Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions**

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).

2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.

3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)

2. Oral and Written Communications Competency Part A (OWC-A)

3. Quantitative Literacy Competency Part A (QL-A)

4. A cumulative GPA of 2.5 or higher

5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221,
and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.

6. Students should complete the above to advance to major within the first 45 credits.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
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<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

**Appeal Process**

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advising**

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
*(closed on university holidays)*  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BA: Design Studies**

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have four course tracks to choose from: Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design.

The courses required and recommended for this track are listed on the "Requirements" tab. The "Plan of Study" tab suggests course sequencing across all four years so students can meet the degree requirements. Students are required to complete 18 studio credits after the First Year Program, but may take more studio courses as part of their Directed Electives if they desire.

**Requirements**

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 92)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Requirements (p. 93)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BA Degree Requirements (p. 93)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Major Requirements (p. 93)</td>
<td></td>
<td>48</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

**University Core**

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td></td>
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<tr>
<td>Competencies</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
English Parts A & B ²
Math Parts A & B ²
Foreign Language ²

**Distribution Requirements** ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
</tbody>
</table>

Social Science 6
Natural Science (1 course with lab) 6
Cultural Diversity ²

**Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 427</td>
<td>Advanced Design Workshop: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td></td>
</tr>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td></td>
</tr>
<tr>
<td>ART 528</td>
<td>Print Production and Presentation Techniques</td>
<td></td>
</tr>
<tr>
<td>ART 608</td>
<td>Art and Design Internship</td>
<td></td>
</tr>
</tbody>
</table>

**Select 30 credits from Peck School of the Arts or the University¹** 30

Total Credits 48

¹ Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives. The Art & Design Undergraduate Advisor has lists of suggested studio and academic courses to help students develop a cohesive curriculum in design.

**Plan of Study**

**Recommended Four-Year Sequence in Design Studies**

**Year 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture ³</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ART 310</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td>3</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 222</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture ³</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td>3</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 322</td>
<td>Topics in Illustration:</td>
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</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td></td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td></td>
</tr>
<tr>
<td>ART 424</td>
<td>Topics in Web, Interaction and Screen Design: (subtitle)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 12

**Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives. The Art & Design Undergraduate Advisor has lists of suggested studio and academic courses to help students develop a cohesive curriculum in design.**

1. Learn more about the General Education Requirements (p. 29).
2. Credit may be utilized in required curriculum areas.
Design.

no further steps are required for acceptance into the Department of Art &

After being admitted to UWM and indicating Art as your chosen major,

transfer students) must meet

To be admitted in good standing, applicants (incoming freshmen and

Requirements

Art & Design Undergraduate Admission

Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Art & Design Undergraduate Admission

Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are

strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
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Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

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Code
Title
Credits

ART 101 Drawing I
3
ART 106 Art Survey
3
ART 108 2D Concepts
3
ART 109 3D Concepts
3
ART 118 Digital Arts: Culture, Theory, Practice
3

Total Credits
15

Appeal Process

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the
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**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
**Contact:** (414) 229-4763

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### Honors in the Major

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High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

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### Honors in the Peck School of the Arts

**Dean’s Honor List**  
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**  
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**  
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

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### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Art, BA: Digital Fabrication and Design

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have four course tracks to choose from: Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design.

The courses required and recommended for this track are listed on the "Requirements" tab. The "Plan of Study" tab suggests course sequencing across all four years so students can meet the degree requirements. Students are required to complete 18 studio credits after the First Year Program, but may take more studio courses as part of their Directed Electives if they desire.

### Requirements

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UW</td>
<td>University Core (p. 95)</td>
<td>45</td>
</tr>
<tr>
<td>UW</td>
<td>First Year Program (p. 96)</td>
<td>15</td>
</tr>
<tr>
<td>UW</td>
<td>BA Degree Requirements (p. 96)</td>
<td>12</td>
</tr>
<tr>
<td>UW</td>
<td>Major Requirements (p. 96)</td>
<td>48</td>
</tr>
<tr>
<td>UW</td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

### University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UW</td>
<td>General Education Requirements ¹</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>Compentencies ³</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>English Parts A &amp; B ²</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>Math Parts A &amp; B ²</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>Foreign Language ²</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>Distribution Requirements ⁷</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>ARTHIST 101 Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>UW</td>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
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<td>UW</td>
<td>Social Science</td>
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<tr>
<td>UW</td>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
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<tr>
<td>UW</td>
<td>Cultural Diversity ²</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>UW</td>
<td>Advanced ARTHIST course</td>
<td>6</td>
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</tbody>
</table>
Select 3 arts areas outside Art and Design 9
Select 3 credits in an arts area 3
Select 9 credits outside Peck School of the Arts 9

Total Credits 45

1 Learn more about the General Education Requirements (p. 29).
2 Credit may be utilized in required curriculum areas.

### First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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</tbody>
</table>

Total Credits 15

### Degree Requirements

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
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</tbody>
</table>

Total Credits 12

### Major Requirements

#### Introductory Studios

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 278</td>
<td>Introduction to Industrial Craft</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Studio Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
<td>3</td>
</tr>
<tr>
<td>ART 578</td>
<td>Research in Digital Fabrication and Craft: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electives

Select 30 credits from Peck School of the Arts or the University 1 30

Total Credits 48

1 Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

### Plan of Study

#### Recommended Four-Year Sequence in Digital Fabrication & Design

#### Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 15

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication 2</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 15

#### Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</td>
<td></td>
</tr>
<tr>
<td>ART 278</td>
<td>Introduction to Industrial Craft</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture 3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
</tr>
<tr>
<td>Directed Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 15

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture 3</td>
</tr>
<tr>
<td>Directed Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
</tr>
<tr>
<td>Directed Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 15

#### Year 3

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 4</td>
<td>3</td>
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<tr>
<td>Directed Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
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</tbody>
</table>

Credits 15

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 578</td>
<td>Research in Digital Fabrication and Craft: (subtitle)</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 15

#### Year 4

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
</tr>
</tbody>
</table>

Credits 15
should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
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<td>3</td>
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<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

**Appeal Process**

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advising**

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday (closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.
Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BA: Studio Arts

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have four course tracks to choose from: Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design.

The courses required and recommended for this track are listed on the "Requirements" tab. The “Plan of Study” tab suggests course sequencing across all four years so students can meet the degree requirements. Students are required to complete 18 studio credits after the First Year Program, but may take more studio courses as part of their Directed Electives if they desire.

Requirements

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 98)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 98)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BA Degree Requirements (p. 98)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Major Requirements (p. 99)</td>
<td></td>
<td>48</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Parts A &amp; B</td>
<td></td>
<td></td>
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<tr>
<td>Math Parts A &amp; B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td>2</td>
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<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced ARTHIST course</td>
<td></td>
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</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
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<td>9</td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
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<td>3</td>
</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
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<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>45</td>
</tr>
</tbody>
</table>

1. Learn more about the General Education Requirements (p. 29).

2. Credit may be utilized in required curriculum areas.

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
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<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>15</td>
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</table>

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>3</td>
</tr>
</tbody>
</table>
**ART 509**  |  Art & Design Seminar:  |  3  
**ART 604**  |  Professional Practices  |  3  

**Total Credits**  |  12  

### Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ART 212</strong></td>
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<td>3</td>
</tr>
<tr>
<td><strong>ART 231</strong></td>
<td>Introduction to Fibers</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 243</strong></td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 253</strong></td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 261</strong></td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 271</strong></td>
<td>Introduction to Jewelry and Metalamithing</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 277</strong></td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 281</strong></td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 291</strong></td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select 6 credits of the following:**  |  6  
| **ART 212** | Introduction to Digital Studio: A/V Strategies | 3 |
| **ART 231** | Introduction to Fibers | 3 |
| **ART 243** | Introduction to Painting | 3 |
| **ART 253** | Introduction to Photography | 3 |
| **ART 261** | Introduction to Sculpture | 3 |
| **ART 271** | Introduction to Jewelry and Metalamithing | 3 |
| **ART 277** | Design for Digital Fabrication | 3 |
| **ART 281** | Introduction to Ceramics | 3 |
| **ART 291** | Introduction to Print and Narrative Forms | 3 |

### Studio Concentration

Select 12 credits from **ART 300+ approved studio courses chosen in consultation with advisor**  |  12  
| **ART 309** | Issues in Contemporary Art: (Art & Design Lecture Series) | 3 |
| Directed Elective | | 3 |
| University Core | | 3 |

**Select 30 credits from Peck School of the Arts or the University**  |  30  
| Directed Elective | | 2 |
| University Core | | 3 |

**Total Credits**  |  48  

1. Directed Electives are intended to build upon and augment each student's curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

### Plan of Study

#### Recommended Four-Year Sequence in Studio Arts

**Year 1**

**Fall**  |  Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ART 101</strong></td>
<td>Drawing I</td>
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<td><strong>ART 106</strong></td>
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<td>University Core</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td></td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**Spring**  |  Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ART 109</strong></td>
<td>3D Concepts</td>
</tr>
<tr>
<td><strong>ART 118</strong></td>
<td>Digital Arts: Culture, Theory, Practice</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td></td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

1. (Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

#### Year 2

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td><strong>ARTHIST 101</strong></td>
<td>Ancient and Medieval Art and Architecture</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td><strong>ART 309</strong></td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td></td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**Spring**

300-level and above Studio Concentration  |  3  
| **ARTHIST 102** | Renaissance to Modern Art and Architecture | 3 |
| Select one of the following: | 3 |
| **ART 309** | Issues in Contemporary Art: (Art & Design Lecture Series) | 3 |
| Directed Elective 2 | | 3 |
| Directed Elective 2 | | 3 |
| University Core | | 3 |
| **Credits** | 15 |

#### Year 3

**Fall**

300-level and above Studio Concentration  |  3  
| **ART 309** | Art & Design Seminar: (subtitle) | 3 |
| Advanced Art History choice | | 3 |
| Directed Elective 2 | | 3 |
| Directed Elective 2 | | 3 |
| University Core | | 3 |
| **Credits** | 15 |

**Spring**

300-level and above Studio Concentration  |  3  
| **ART 509** | Advanced Art History choice | 3 |
| Directed Elective 2 | | 3 |
| University Core | | 3 |
| **Credits** | 15 |

#### Year 4

**Fall**

300-level and above Studio Concentration  |  3  
| **ART 505** | BA Project | 3 |
| Directed Elective 2 | | 3 |
| Directed Elective 2 | | 3 |
| University Core | | 3 |
| **Credits** | 15 |

**Spring**

300-level and above Studio Concentration  |  3  
| **ART 509** | Advanced Art History choice | 3 |
| Directed Elective 2 | | 3 |
| University Core | | 3 |
| **Credits** | 15 |

**Total Credits**  | 120  

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
**Art & Design Undergraduate Admission Requirements**

To be admitted in good standing, applicants (including transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

**Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions**

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.

Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Appeal Process**

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advising**

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday (closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.
Honors in the Peck School of the Arts

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Ceramics
Our program offers a broad technical and conceptual experience through experimentation with a range of approaches to the medium, from sculptural to functional, and nontraditional to traditional.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 101)</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>First Year Program (p. 101)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 101)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 102)</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Area of Concentration (p. 102)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>130</td>
<td></td>
</tr>
</tbody>
</table>

University Core
The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements ¹</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Competencies ¹</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>English Parts A &amp; B ²</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Math Parts A &amp; B ²</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Foreign Language ²</td>
<td>2</td>
<td></td>
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<tr>
<td>Distribution Requirements ¹</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
</tbody>
</table>

Social Science 6
Natural Science (1 course with lab) 6
Cultural Diversity ²

Electives
Advanced ARTHIST course 6
Select 3 arts areas outside Art and Design 9
Select 3 credits in an arts area 3
Select 9 credits outside Peck School of the Arts 9
Total Credits 45

¹ Learn more about the General Education Requirements (p. 29).
² Credit may be utilized in required curriculum areas.

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
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</tbody>
</table>

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 Level Studio Electives ¹</td>
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</tr>
<tr>
<td>Select 3-6 credits of the following:</td>
<td>3-6</td>
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</tr>
<tr>
<td>ART 201</td>
<td>Drawing II ²</td>
<td>3</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies ³</td>
<td>3</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design ⁴</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
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<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td>3</td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography ⁵</td>
<td>3</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>Select 3-6 credits of the following:</td>
<td>3-6</td>
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</tr>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td>3</td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
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</table>
Critical Thinking

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

1. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
2. Required for Painting and Drawing concentration.
3. Required for Digital Studio Practice concentration.
5. Required for Photography and Imaging concentration.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art &amp; Design Electives</td>
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<td>27</td>
</tr>
<tr>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
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<td>27</td>
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<tr>
<td>Senior Capstone</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td></td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

Ceramics Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramics Introductory</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>Ceramics Studio</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Select six of the following:</td>
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<td>18</td>
</tr>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
<td></td>
</tr>
<tr>
<td>ART 382</td>
<td>Building from the Figure in Clay</td>
<td></td>
</tr>
<tr>
<td>ART 383</td>
<td>Molds and Multiples in Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 384</td>
<td>Experimental Processes in Woodfiring I</td>
<td></td>
</tr>
<tr>
<td>ART 389</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 481</td>
<td>Ceramics Special Topics and Portfolio I</td>
<td></td>
</tr>
<tr>
<td>ART 482</td>
<td>Ceramics Special Topics and Portfolio II</td>
<td></td>
</tr>
<tr>
<td>ART 483</td>
<td>Ceramics Special Topics and Portfolio III</td>
<td></td>
</tr>
<tr>
<td>ART 489</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 584</td>
<td>Experimental Processes in Woodfiring II</td>
<td></td>
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</table>

Ceramics Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 583</td>
<td>Senior Project in Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>24</td>
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</tbody>
</table>

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
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</table>

Year 3

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
</tr>
<tr>
<td>ART 389</td>
<td>Ceramics Workshop: (subtitle)</td>
</tr>
<tr>
<td>or ART 384</td>
<td>Experimental Processes in Woodfiring I</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
</tr>
<tr>
<td>ART 102</td>
<td>Renaissance to Modern Art and Architecture</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

Year 4

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 384</td>
<td>Experimental Processes in Woodfiring I</td>
</tr>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
</tr>
<tr>
<td>ART 489</td>
<td>Ceramics Workshop: (subtitle)</td>
</tr>
<tr>
<td>ART 481</td>
<td>Ceramics Special Topics and Portfolio I</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
</tr>
<tr>
<td>Advanced Art History choice 2</td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

Credits
Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by genre, media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

Advancement to Major
Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below.

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

Code     Title                                Credits
ART 101  Drawing I                           3
ART 106  Art Survey                          3
ART 109  2D Concepts                         3
ART 118  Digital Arts: Culture, Theory, Practice 3

Total Credits 15

Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.
Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Design and Visual Communication
The competitive field of Design requires practitioners who are intellectually curious, inventive, dedicated, critical, collaborative, and proactive life-long learners. Our students meet that need by developing as strategists, problem-identifiers, problem-solvers, and business partners.

Students in Design and Visual Communication are required to have a laptop computer for their coursework by the first week of class, beginning with ART 221 and for all subsequent courses in Design and Visual Communication. Visit uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/) for more information.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 104)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 104)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 104)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 105)</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Area of Concentration (p. 105) 34
Total Credits 130

University Core
The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Parts A &amp; B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math Parts A &amp; B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Distribution Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
</tbody>
</table>

Social Science 6
Natural Science (1 course with lab) 6
Cultural Diversity 2

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced ARTHIST course</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits 45

1 Learn more about the General Education Requirements (p. 29).
2 Credit may be utilized in required curriculum areas.

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>3-6</td>
</tr>
<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td></td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td></td>
</tr>
</tbody>
</table>

Select 3-6 credits of the following: 3-6
**ART 221**  Introduction to Design
**FILM 222**  Introduction to Digital Filmmaking
**ART 223**  Introduction to Typography
**ART 224**  Dynamic Typography
**ART 227**  Design Workshop:
**ART 228**  Ceramics Workshop:
**ART 238**  Fiber Workshop:
**ART 243**  Introduction to Painting
**ART 249**  Painting and Drawing Workshop:
**ART 253**  Introduction to Photography
**ART 269**  Sculpture Workshop:
**ART 277**  Design for Digital Fabrication
**ART 279**  Jewelry and Metalsmithing Workshop:
**ART 289**  Ceramics Workshop:
**ART 291**  Introduction to Print and Narrative Forms
**ART 299**  Printmaking Workshop:

Select 3-6 credits of the following: 3-6

- **ART 231**  Introduction to Fibers
- **ART 261**  Introduction to Sculpture
- **ART 271**  Introduction to Jewelry and Metalsmithing
- **ART 281**  Introduction to Ceramics

**Critical Thinking**

- **ART 309**  Issues in Contemporary Art: 3
- **ART 509**  Art & Design Seminar: 3

Total Credits 15

1. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
2. Required for Painting and Drawing concentration.
3. Required for Digital Studio Practice concentration.
5. Required for Photography and Imaging concentration.

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Art &amp; Design Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Select 21 credits (15 credits must be 300-level and above studio courses)</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

### Design and Visual Communication Concentration

After admission into Design and Visual Communication, students must:

1. Complete ART 321 and ART 323 with a grade of B- or better to enroll in ART 421 and ART 423.
2. Complete ART 421 and ART 422 with a grade of B- or better to enroll in ART 529.
3. Complete ART 529 as Senior Capstone Experience concurrently with ART 606.
4. Complete ART 324 and either ART 325 or ART 424. These required courses are not part of the core sequence, and may be taken any time after prerequisites are met.
5. Complete two of the six following courses (6 credits): ART 423, ART 426, ART 524, ART 526, ART 528, or either ART 325 or ART 424 not taken in point 4.
6. Complete 9 credits of Design and Visual Communication Expanded Studies (ES) all outside the Peck School of the Arts. See your advisor in the Peck School of the Arts Student Services Office for an updated list of recommended courses.

Students may petition to substitute for some or all of the DVC Expanded Studies courses. Likely candidates would be students with a high GPA who have tested out of freshman English; double majors; and students with a keen and credible interest in another area of study. Petitions to substitute for courses will be evaluated on a case-by-case basis by Design faculty and will be subject to an appeals process.

### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Design and Visual Communication Introductory</strong></td>
<td></td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design (credit from Art &amp; Design core)</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Design and Visual Communication Core</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Required Core Sequence</strong></td>
<td></td>
</tr>
<tr>
<td>ART 321</td>
<td>Design and Visual Communication I</td>
<td>3</td>
</tr>
<tr>
<td>ART 323</td>
<td>Typography II</td>
<td>3</td>
</tr>
<tr>
<td>ART 421</td>
<td>Design and Visual Communication II</td>
<td>3</td>
</tr>
<tr>
<td>ART 422</td>
<td>Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Required Interaction Design Courses</strong></td>
<td></td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 424</td>
<td>Topics in Web, Interaction and Screen Design: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>or ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Required Core Choices</strong></td>
<td></td>
</tr>
<tr>
<td>Select two of the following: 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II (whichever course is not taken in Required Interaction Design Courses)</td>
<td>6</td>
</tr>
<tr>
<td>or ART 424</td>
<td>Topics in Web, Interaction and Screen Design: (subtitle)</td>
<td>6</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 426</td>
<td>Motion Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3</td>
</tr>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 528</td>
<td>Print Production and Presentation Techniques</td>
<td>3</td>
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</tbody>
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### Design and Visual Communication Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 529</td>
<td>Design and Visual Communication III (Senior Capstone)</td>
<td>3</td>
</tr>
<tr>
<td>ART 606</td>
<td>BFA Exhibition in Design</td>
<td>1</td>
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</table>

Total Credits 34
Art BFA in Design and Visual Communication – Recommended Curriculum

Year 1

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 101 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106 Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108 2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
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</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109 3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118 Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

Year 2

Fall

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Portfolio review for students in Design and Visual Communication is held in spring semester only. Portfolio review guidelines are available from the area.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 221 Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 124 Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101 Ancient and Medieval Art and Architecture 3</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
</tr>
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</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 223 Introduction to Typography (Counts as 2D 200 level)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>ART 309 Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 324 Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture 3</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
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Year 3

Fall

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 321 Design and Visual Communication I</td>
<td>3</td>
</tr>
<tr>
<td>ART 424 or ART 325 Topics in Web, Interaction and Screen Design: (subtitle) or Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td>3</td>
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<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 323 Typography II</td>
<td>3</td>
</tr>
<tr>
<td>DVC Required Core Choice</td>
<td>3</td>
</tr>
<tr>
<td>ART 509 Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td>3</td>
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<tr>
<td>University Core 1</td>
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<tr>
<td>Credits</td>
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Year 4

Fall

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ART 421 Design and Visual Communication II</td>
<td>3</td>
</tr>
<tr>
<td>ART 422 Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>DVC Required Core Choice</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
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</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 529 Design and Visual Communication III</td>
<td>3</td>
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<tr>
<td>Art &amp; Design Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
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<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 606 BFA Exhibition in Design</td>
<td>1</td>
</tr>
<tr>
<td>Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

Total Credits 130

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
2. Students must complete ART 124, ART 221, and ART 223 to be eligible for portfolio review.
3. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (including freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.
Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better, and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Appeal Process**

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advising**

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
(closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BFA: Digital Studio Practice**

Centered on the study and use of digital technologies in direct relation to traditional visual art, our students combine interactive and electronic media with a secondary established focus (such as Ceramics, Fibers, Design etc.) to create new forms of art.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 108)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 108)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 108)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 108)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Area of Concentration (p. 108)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>130</strong></td>
</tr>
</tbody>
</table>
University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong> 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Competencies</strong> 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Parts A &amp; B 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math Parts A &amp; B 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Distribution Requirements</strong> 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARTHIST 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARTHIST 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Science</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced ARTHIST course</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 3 arts areas outside Art and Design</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits in an arts area</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits outside Peck School of the Arts</td>
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<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>1 Learn more about the General Education Requirements (p. 29).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 Credit may be utilized in required curriculum areas.</td>
<td></td>
</tr>
</tbody>
</table>

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>2.5 cumulative GPA required:</strong></td>
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</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
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</tbody>
</table>

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td></td>
<td><strong>200 Level Studio Electives</strong> 1</td>
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</tr>
<tr>
<td></td>
<td>Select 3-6 credits of the following: 3-6</td>
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</tr>
<tr>
<td></td>
<td>ART 201</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Drawing II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 208</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Color Studio</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 212</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 221</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FILM 222</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 223</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 224</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 227</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Design Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 238</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fiber Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 243</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 249</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Painting and Drawing Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 253</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Photography 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 269</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sculpture Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 277</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 279</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 289</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 291</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 299</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Printmaking Workshop:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3-6 credits of the following: 3-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 231</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 261</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 271</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 281</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 309</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Issues in Contemporary Art: 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 509</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Art &amp; Design Seminar:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

1 Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
2 Required for Painting and Drawing concentration.
3 Required for Digital Studio Practice concentration.
4 Required for Design and Visual Communication concentration.
5 Required for Photography and Imaging concentration.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Art &amp; Design Electives</strong></td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Senior Capstone</strong></td>
<td></td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 605</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

Digital Studio Practice Concentration

Students wishing to major in Digital Studio Practice must complete the following requirements:

1. meet all Art & Design Department admission and minimum GPA requirements (p. 110);
2. complete Digital Studio Practice Introductory Requirement (3 credits): ART 212 and one other 200-level class (in your cross-disciplinary focus area; see below);
3. pass Digital Studio Practice portfolio review. First opportunity to apply to Portfolio Review takes place at the completion of ART 212;
4. complete 12 credits in a cross-disciplinary focus (6 of which must be at 300 level and above); and
5. students in Digital Studio Practice are required to have a laptop computer with required software beginning with ART 212. Visit [http://uwm.edu/arts/apply/laptop/](http://uwm.edu/arts/apply/laptop/) for more information.

**Cross-Disciplinary Focus**

All DSP students must choose a secondary focus area within the Department of Art & Design, with which to combine their digital skill sets. Students must fulfill at least 12 of the above Art and Design elective credits in their cross-disciplinary focus area (at least 6 of these credits must be at 300 level or above).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digital Studio Practice Introductory</strong></td>
<td>ART 212 Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Digital Studio Practice Core</strong></td>
<td>ART 312 Intermediate Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 315 Participatory Art and Social Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ART 316 Interactive and Multimedia Art</td>
<td></td>
</tr>
<tr>
<td>Select four of the following (subtitled classes may be taken twice with change of topic):</td>
<td>ART 314 Digital Painting</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 315 Participatory Art and Social Practice</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>or ART 316 Interactive and Multimedia Art</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 318 Electronics and Sculpture</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 324 Web Design</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 327 Digital Media Workshop: (subtitle)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 378 Industrial Processes and Fabrication</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 393 Digital Printmaking</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 405 Product Realization</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 412 Advanced Digital Studio</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 418 Advanced Electronics and Sculpture:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(subtitle)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 426 Motion Graphics</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 456 Advanced Digital Photography</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ART 478 Digital Fabrication and Craft</td>
<td>1</td>
</tr>
<tr>
<td><strong>Digital Studio Practice Capstone</strong></td>
<td>ART 612 Senior Project in Digital Studio Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

1 Subtitled classes may be taken twice with change of topic.

**Art BFA – Sample Curriculum in Digital Studio Practice**

**Year 1**

**Fall**

(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 2**

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
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</table>

**Year 3**

**Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>300+ Core Choice DSP Studio course</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>300+ Core Choice DSP Studio course</td>
<td>6</td>
<td></td>
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</tbody>
</table>

**Art & Design Elective (recommend 300-level or above cross-disciplinary focus)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core 1</td>
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**Year 4**

**Fall**

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</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>300+ Core Choice DSP Studio course</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Elective (may include DSP Core Choices)</td>
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<td></td>
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</table>

**Art & Design Elective (may include DSP Core Choices)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core 1</td>
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**Spring**

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>3</td>
</tr>
<tr>
<td>ART 612</td>
<td>Senior Project in Digital Studio Practice</td>
<td>3</td>
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</tbody>
</table>

**Art & Design Elective (may be Core Choice or cross-disciplinary focus)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core 1</td>
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<td>3</td>
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</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
</tbody>
</table>
Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (including freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

Appeal Process

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.
Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Fibers
Our program includes a multi-cultural history of textiles, contemporary fiber artists, and the integration of traditional techniques with digital media. Students will develop an understanding and appreciation of fibers and its visual language, while learning its traditional processes and contemporary applications.

Requirements
Code | Title | Credits
--- | --- | ---
University Core (p. 111) |  | 45
First Year Program (p. 111) |  | 15
Art & Design Core (p. 111) |  | 15
BFA Degree Requirements (p. 112) |  | 31
Area of Concentration (p. 112) |  | 24
Total Credits |  | 130

University Core
The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Parts A &amp; B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math Parts A &amp; B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced ARTHIST course</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

1 Learn more about the General Education Requirements (p. 29).
2 Credit may be utilized in required curriculum areas.

First Year Program
Code | Title | Credits
--- | --- | ---
ART 101 | Drawing I | 3
ART 106 | Art Survey | 3
ART 108 | 2D Concepts | 3
ART 109 | 3D Concepts | 3
ART 118 | Digital Arts: Culture, Theory, Practice | 3
Total Credits | 15 |

Art & Design Core
Code | Title | Credits
--- | --- | ---
200 Level Studio Electives |  |
Select 3-6 credits of the following: | 3-6 |
ART 201 | Drawing II |  |
ART 208 | Color Studio |  |
ART 212 | Introduction to Digital Studio: A/V Strategies |  |
ART 221 | Introduction to Design | 4 |
FILM 222 | Introduction to Digital Filmmaking |  |
ART 223 | Introduction to Typography |  |
ART 224 | Dynamic Typography |  |
ART 227 | Design Workshop: |  |
ART 238 | Fiber Workshop: |  |
ART 243  Introduction to Painting
ART 249  Painting and Drawing Workshop:  
ART 253  Introduction to Photography  
ART 269  Sculpture Workshop:  
ART 277  Design for Digital Fabrication  
ART 279  Jewelry and Metalsmithing Workshop:  
ART 289  Ceramics Workshop:  
ART 291  Introduction to Print and Narrative Forms  
ART 299  Printmaking Workshop:  
Select 3-6 credits of the following:  
ART 231  Introduction to Fibers  
ART 261  Introduction to Sculpture  
ART 271  Introduction to Jewelry and Metalsmithing  
ART 281  Introduction to Ceramics  
Critical Thinking  
ART 309  Issues in Contemporary Art:  
ART 509  Art & Design Seminar:  
Total Credits  
1  Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.  
2  Required for Painting and Drawing concentration.  
3  Required for Digital Studio Practice concentration.  
4  Required for Design and Visual Communication concentration.  
5  Required for Photography and Imaging concentration.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art &amp; Design Electives</td>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
<td>27</td>
</tr>
</tbody>
</table>

Senior Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits  
15

Fibers Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibers Introductory</td>
<td>ART 231  Introduction to Fibers</td>
<td>3</td>
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</tbody>
</table>

Fibers Core

Select six of the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 332</td>
<td>Woven Structure I</td>
<td></td>
</tr>
<tr>
<td>ART 333</td>
<td>Pliable Materials/Sculptural Forms</td>
<td></td>
</tr>
<tr>
<td>ART 336</td>
<td>Print, Paint and Dye on Fabric</td>
<td></td>
</tr>
<tr>
<td>ART 337</td>
<td>Screen Printing on Fabric</td>
<td></td>
</tr>
<tr>
<td>ART 431</td>
<td>Special Topics in Fibers:</td>
<td></td>
</tr>
<tr>
<td>ART 432</td>
<td>Woven Structure II</td>
<td></td>
</tr>
<tr>
<td>ART 433</td>
<td>Digital Imaging for Fabric</td>
<td></td>
</tr>
<tr>
<td>ART 435</td>
<td>Mixed Materials: Concept/Object</td>
<td></td>
</tr>
</tbody>
</table>

Art BFA – Sample Curriculum in Fibers

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
</tr>
<tr>
<td>ART 108  or ART 109</td>
<td>2D Concepts or 3D Concepts</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
</tr>
<tr>
<td>University Core</td>
</tr>
</tbody>
</table>

Total Credits  
15

Spring

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109  or ART 108</td>
</tr>
<tr>
<td>ART 118</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 231</td>
</tr>
<tr>
<td>200-level studio in Art</td>
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</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>University Core</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 337</td>
</tr>
<tr>
<td>ART 333</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 336</td>
<td>Print, Paint and Dye on Fabric</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 433</td>
</tr>
</tbody>
</table>
strongly encouraged to submit a portfolio of artworks and additional

Applicants to the Art & Design program (including Art Education) are

Submissions

Art & Design Undergraduate Incoming and

Design.

no further steps are required for acceptance into the Department of Art &

After being admitted to UWM and indicating Art as your chosen major,

transfer students) must meet

To be admitted in good standing, applicants (incoming freshmen and

requirements in the Core Curriculum.

PSOA Arts Distribution Requirement is part of the 45-credit Core: 9

credits outside of Art & Design, in 3 of the 4 other departments in

PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New

Genres.

The 12 Art History credits count in the Core Curriculum. Six credits

(ARTHIST 101 and ARTHIST 102) count as Humanities GER.

Consult your academic advisor in the Peck School of the Arts

Student Services Office for requirements in the Core Curriculum.

Art & Design Elective

Art & Design Elective

Advanced Art History choice

University Core

Credits

Spring

Select one of the following:

ART 431 Special Topics in Fibers:

ART 432 Woven Structure II

ART 435 Mixed Materials: Concept/Object

ART 509 Art & Design Seminar: (subtitle)

Art & Design Elective

Advanced Art History choice

University Core

Credits

Year 4

Fall

ART 604 Professional Practices

ART 433 Digital Imaging for Fabric

or ART 436

or Cloth Construction: Surface to Structure

Art & Design Elective

Art & Design Elective

Art & Design Elective

University Core

Credits

Spring

ART 605 BFA Exhibition

ART 531 Senior Project in Fibers

Art & Design Elective

Art & Design Elective

University Core

University Core

Credits

Total Credits

1

2

Supporting materials, as described below, for review by the Art & Design

Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form.

2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the

past two years. If including drawings, we recommend at least three

from observation (not from photographs). Identify each image by

media, size, and year of completion in a separate document. JPEG

files at 2000 px max preferred.

3. As a part of the online application you will provide a personal

statement that relates to your interest in Art & Design and how your

work at Peck School of the Arts will help you achieve your career

goals.

Art & Design awards Incoming Scholarships based on this incoming

portfolio. Admitted students interested in applying for scholarship aid

should do so by December 15 for priority consideration. Portfolios will be

accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-

and-design/.

Advancement to Major

Students accepted into the Art & Design program receive priority

registration over non-art majors. To advance to the Art & Design major,

students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list

below)

2. Oral and Written Communications Competency Part A (OWC-A)

3. Quantitative Literacy Competency Part A (QL-A)

4. A cumulative GPA of 2.5 or higher

5. Students pursuing the Design and Visual Communication BFA

have additional requirements: complete ART 124, ART 221,

and ART 223 with a B- or better; and pass the Design and Visual

Communication Portfolio review.

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first 45 credits.

Code

Title

ART 101

Drawing I

ART 106

Art Survey

ART 108

2D Concepts

ART 109

3D Concepts

ART 118

Digital Arts: Culture, Theory, Practice

Total Credits

15

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Honors in the Peck School of the Arts

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Jewelry and Metalsmithing

In development of metal objects and wearables, our program focuses on qualities unique to Metalsmithing as a craft practice. Students gain an understanding of the discipline, its conditions, possibilities and limitations, while allowing for multiple traditional and experimental processes and approaches.

Requirements

University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Honors in the Peck School of the Arts

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

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 Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
ART 108 2D Concepts 3
ART 109 3D Concepts 3
ART 118 Digital Arts: Culture, Theory, Practice 3

Total Credits 15

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 Level Studio Electives 1</td>
<td>Select 3-6 credits of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 201</td>
<td>Drawing II 2</td>
<td></td>
</tr>
<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td></td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies 3</td>
<td></td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design 4</td>
<td></td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td></td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
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<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography 5</td>
<td></td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td></td>
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</table>

Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
</tbody>
</table>

Critical Thinking

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

1 Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
2 Required for Painting and Drawing concentration.
3 Required for Digital Studio Practice concentration.
4 Required for Design and Visual Communication concentration.
5 Required for Photography and Imaging concentration.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art &amp; Design Electives Select 27 credits (15 credits must be 300-level and above studio courses)</td>
<td>27</td>
<td></td>
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</tbody>
</table>

Senior Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
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</table>

Total Credits 31

Jewelry and Metalsmithing Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
</tbody>
</table>

Jewelry and Metalsmithing Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 371</td>
<td>Construction and Fabrication in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>ART 474</td>
<td>3D Multidisciplinary Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four of the following: 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 372</td>
<td>The Multiple in Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 470</td>
<td>Metal Forming</td>
<td></td>
</tr>
<tr>
<td>ART 472</td>
<td>Color on Metal</td>
<td></td>
</tr>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
<td></td>
</tr>
</tbody>
</table>

Jewelry and Metalsmithing Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 575</td>
<td>Senior Project in Jewelry and Metalsmithing</td>
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Total Credits 24

Recommended Electives

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 379</td>
<td>Jewelry and Metalsmithing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 479</td>
<td>Jewelry and Metalsmithing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
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</table>

Art BFA—Sample Curriculum in Jewelry and Metalsmithing

Year 1

Fall

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
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</table>

Credits 15

Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3
### Year 2

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Credits** 15

### Year 3

**Fall**

ART 470 Metal Forming 3

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Credits** 3

ART 478 Digital Fabrication and Craft 2 3

200-level studio in Art 3

**Credits** 3

ARTHIST 102 Renaissance to Modern Art and Architecture 2 3

**Credits** 3

**Spring**

ART 472 Color on Metal 3

ART 474 3D Multidisciplinary Capstone 3

ART 509 Art & Design Seminar: (subtitle) 3

**Credits** 3

Advanced Art History choice 2 3

University Core 3 3

**Credits** 3

### Year 4

**Fall**

ART 604 Professional Practices 3

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Credits** 3

**Spring**

ART 605 BFA Exhibition 1

### Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

### Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

### Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below.

1. Consult your academic advisor in the Peck School of the Arts Student Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

3. 200-level studio in Art (ART 231 or ART 261 or ART 281)
1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better, and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Appeal Process**
An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advising**
**Location:** Theatre 120
**Reception Hours:** 9AM-4PM Monday through Friday (closed on university holidays)
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

**Honors in the Major**
Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

**Departmental Honors** are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BFA: Painting and Drawing**
Our program provides an intensive opportunity to develop formal and technical skills, balanced with conceptual and material exploration. Students are encouraged to search for answers to questions about the relevance and position painting holds in contemporary art practice, its relation to global visual culture, and today’s information-age and multi-cultural environments.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>University Core (p. 117)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 118)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 118)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 118)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Area of Concentration (p. 118)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>130</td>
</tr>
</tbody>
</table>

**University Core**
The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.
**General Education Requirements**

<table>
<thead>
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<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>1</td>
<td>English Parts A &amp; B</td>
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<tr>
<td>1</td>
<td>Math Parts A &amp; B</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>Foreign Language</td>
<td>2</td>
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<tr>
<td>1</td>
<td>Distribution Requirements</td>
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**Course Descriptions**

- **ARTHIST 101**: Ancient and Medieval Art and Architecture (counts as Humanities GER) 3
- **ARTHIST 102**: Renaissance to Modern Art and Architecture (counts as Humanities GER) 3

**Social Science**

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6</td>
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**Natural Science (1 course with lab)**

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<th>Credits</th>
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</thead>
<tbody>
<tr>
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**Board of Contemporary Art (new course)**

<table>
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<tr>
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<th>Credits</th>
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**Cultural Diversity**

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<tbody>
<tr>
<td>1</td>
<td></td>
<td>2</td>
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**Electives**

- **2.5 cumulative GPA required:**
- **Select 3 arts areas outside Art and Design:** 9
- **Select 3 credits in an arts area:** 3
- **Select 9 credits outside Peck School of the Arts:** 9

**Total Credits**: 45

1. Learn more about the General Education Requirements (p. 29).
2. Credit may be utilized in required curriculum areas.

---

**First Year Program**

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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**Total Credits**: 15

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**Art & Design Core**

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**200 Level Studio Electives**

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<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>3-6</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
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<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
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</table>

**Total Credits**: 27

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**Painting and Drawing Introduction**

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>ART 243</td>
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**Painting and Drawing Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 342</td>
<td>Introduction to Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 343</td>
<td>Figure Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 441</td>
<td>Advanced Drawing Strategies I</td>
<td>3</td>
</tr>
<tr>
<td>ART 443</td>
<td>Painting Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 543</td>
<td>Painting Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 442</td>
<td>Figure Drawing Explorations</td>
<td>3</td>
</tr>
<tr>
<td>ART 441</td>
<td>Advanced Drawing Strategies II</td>
<td>3</td>
</tr>
<tr>
<td>ART 543</td>
<td>Painting Studio (recommended retake)</td>
<td>3</td>
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</table>

**Painting and Drawing Capstone**

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 643</td>
<td>Senior Project in Painting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 24
Art BFA – Sample Curriculum in Painting and Drawing

### Year 1

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
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<td>3</td>
</tr>
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<td>University Core</td>
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<tr>
<td><strong>Credits</strong></td>
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**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Year 2

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 342</td>
<td>Introduction to Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following 200-level Studios:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td>3</td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 343</td>
<td>Figure Painting</td>
<td>3</td>
</tr>
<tr>
<td>200-Level Studio in Art</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
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</table>

### Year 3

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 443</td>
<td>Painting Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 441</td>
<td>Advanced Drawing Strategies I</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
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**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 543</td>
<td>Painting Studio</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Credits</strong></td>
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### Year 4

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select one of the following:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 442</td>
<td>Figure Drawing Explorations</td>
<td>3</td>
</tr>
<tr>
<td>ART 541</td>
<td>Advanced Drawing Strategies II</td>
<td>3</td>
</tr>
<tr>
<td>ART 543</td>
<td>Painting Studio (recommend retake)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>ART 643</td>
<td>Senior Project in Painting</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>130</strong></td>
</tr>
</tbody>
</table>

1. Consult your academic advisor in the Peck School of the Arts.
2. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

### Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

### Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.
Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better, and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

### Code | Title | Credits
--- | --- | ---
ART 101 | Drawing I | 3
ART 106 | Art Survey | 3
ART 108 | 2D Concepts | 3
ART 109 | 3D Concepts | 3
ART 118 | Digital Arts: Culture, Theory, Practice | 3

**Total Credits** 15

### Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

### Advising

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
(closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

### Honors in the Peck School of the Arts  
#### Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Art, BFA: Photography and Imaging

Our program emphasizes a conceptual fine art practice through the production of darkroom, digital, and hybrid work. Courses integrate socially situated projects with an understanding of both contemporary and historical visual culture by developing a vocabulary for effective communication within the photographic medium.

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 121)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 121)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 121)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 121)</td>
<td></td>
<td>28</td>
</tr>
</tbody>
</table>
University Core
The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>1</td>
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<tr>
<td></td>
<td>Competencies</td>
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<tr>
<td></td>
<td>English Parts A &amp; B</td>
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<tr>
<td></td>
<td>Math Parts A &amp; B</td>
<td>2</td>
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<tr>
<td></td>
<td>Foreign Language</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Distribution Requirements</td>
<td>1</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Advanced ARTHIST course | 6 |
Select 3 arts areas outside Art and Design | 9 |
Select 3 credits in an arts area | 3 |
Select 9 credits outside Peck School of the Arts | 9 |
Total Credits | 45 |

1 Learn more about the General Education Requirements (p. 29).
2 Credit may be utilized in required curriculum areas.

First Year Program
2.5 cumulative GPA required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
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</table>
Total Credits | 15 |

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>2</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>4</td>
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</tbody>
</table>
Total Credits | 15 |

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>4</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop</td>
<td></td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop</td>
<td></td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>5</td>
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<tr>
<td>ART 269</td>
<td>Sculpture Workshop</td>
<td></td>
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<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop</td>
<td></td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop</td>
<td></td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
Total Credits | 15 |

Photography and Imaging Concentration
Students in Photography and Imaging (PI) are required to have a laptop computer for their coursework by the first week of class, beginning with ART 350 and ART 357 and for all subsequent 400 and 500 level courses in Photography and Imaging. Students are recommended to have a computer for ART 253. Visit uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/) for more information.

Students who major in Photography and Imaging are required to have access to cameras. Please contact the Art & Design Department
Photography and Imaging Area office at 414-229-3874 for an updated list of courses and the required camera equipment.

After admission into Photography and Imaging, students must:

1. complete 1-2 of the following 2 courses (3-6 credits): ART 357 and/or ART 358;
2. complete ART 452 with a grade of B- or better, in addition to completing 2-3 of the following 4 courses (6-9 credits): ART 451, ART 454, ART 456, and/or ART 458;
3. complete all 18 credits of the required 300 and 400 level PI courses with a cumulative 2.67 GPA in PI curriculum to enroll in ART 552;
4. complete ART 552 with a grade of B- or better to enroll in ART 553; and
5. complete ART 553.

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
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</tbody>
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**Photography Required**

**Required Core Sequence**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 350</td>
<td>Visualizing Ideas in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 452</td>
<td>Contemporary Issues in Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Intermediate Courses**

Select one or both of the following: 3-6 credits
- ART 357 Studio Lighting & Digital Imaging
- ART 358 Medium and Large Format Photography

**Required Advanced Courses**

Select two or three of the following: 6-9 credits
- ART 451 Special Topics in Photography (subtitle)
- ART 454 Narrative Photography
- ART 456 Advanced Digital Photography
- ART 458 Photographic Materials and Processes

**Photography Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 552</td>
<td>Studio Practice and Research in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 553</td>
<td>Senior Project in Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 27

1 Required Intermediate Courses and Required Advanced Courses must total 12 credits.

**Art BFA – Sample Curriculum in Photography and Imaging**

**Year 1**

**Fall**

( Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 357</td>
<td>Studio Lighting &amp; Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ART 451</td>
<td>Special Topics in Photography (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 458</td>
<td>Photographic Materials and Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 2**

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Portfolio Review for students in Photography and Imaging is held in both the fall and spring semesters. Students must complete ART 253 and ART 350 to be eligible. Portfolio review guidelines are available from the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 350</td>
<td>Visualizing Ideas in Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3 credits
- ART 358 Medium and Large Format Photography

200-level Studio in Art

Select one of the following 200-level Studios in Art: 3 credits
- ART 212 Introduction to Digital Studio: A/V Strategies
- ART 221 Introduction to Design
- ART 291 Introduction to Print and Narrative Forms

**Year 3**

**Fall**

Select two of the following: 6 credits
- ART 358 Medium and Large Format Photography
- ART 454 Narrative Photography
- ART 456 Advanced Digital Photography

Art & Design Elective

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Art History choice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 358</td>
<td>Studio Lighting &amp; Digital Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 509</td>
<td>Special Topics in Photography (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 458</td>
<td>Photographic Materials and Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 4**

**Fall**

Students are reminded that enrollment into ART 552 requires acceptance into the Photography and Imaging program, completion of the 18-credit PI core requirements with a cumulative GPA of 2.67, and a B- or better in both ART 350 and ART 452.

Select two of the following: 6 credits
- ART 358 Medium and Large Format Photography
- ART 454 Narrative Photography

Art & Design Elective

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 358</td>
<td>Studio Lighting &amp; Digital Imaging</td>
<td>3</td>
</tr>
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</table>

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Art History choice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 358</td>
<td>Studio Lighting &amp; Digital Imaging</td>
<td>3</td>
</tr>
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</table>

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 509</td>
<td>Special Topics in Photography (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>
Peterson's Online College Guide 2023-2024

Art & Design Undergraduate Admission

Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Admission

To be admitted into Photography and Imaging, students must pass the PI Portfolio Review. To be eligible for consideration, students must complete ART 253 and ART 350 with a B- or better, a cumulative GPA of 2.67 for all PI courses taken, and admission to Art & Design.

Grading Requirements

Prior to consideration for admission in the Photography and Imaging program, students must receive a B- or better in ART 350, with a cumulative 2.67 GPA in all PI courses. Subsequent to admission in the PI program, students must receive a letter grade of B- or better in ART 452 and ART 552. Should they fail to do so, students must retake the course and receive a B- or better in order to continue in the program. Any student receiving a second grade of less than B- in any area-required courses would need to formally reapply to the PI program or be dropped from the program. Additionally, students must maintain a cumulative GPA of 2.67 within all PI courses taken.

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form. Complete the online form here (https://uwm.edu/arts/apply/).
2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.
3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.

General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better, and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

### Art & Design Undergraduate Admission Requirements

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 16

### Appeal Process

An appeal process is established for students who do not meet the department’s criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the
art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advising**

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
*(closed on university holidays)*  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BFA: Print and Narrative Forms**

Our program explores both historical and contemporary applications of fine art printmaking. Students are encouraged to focus not only on the image itself, but also how it communicates in the context of its structure and presentation.

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 124)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 125)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 125)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 125)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Area of Concentration (p. 125)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>130</strong></td>
</tr>
</tbody>
</table>

**University Core**

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education Requirements</strong> 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Parts A &amp; B 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math Parts A &amp; B 2</td>
<td></td>
<td></td>
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<tr>
<td>Foreign Language 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Distribution Requirements</strong> 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 101 Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced ARTHIST course</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>45</strong></td>
</tr>
</tbody>
</table>

1. Learn more about the General Education Requirements (p. 29).  
2. Credit may be utilized in required curriculum areas.
# First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
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<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
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</tbody>
</table>

*2.5 cumulative GPA required:*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>2</td>
</tr>
<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td></td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>4</td>
</tr>
<tr>
<td>ART 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>5</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

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# Art & Design Core

**200 Level Studio Electives**

Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>2</td>
</tr>
<tr>
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</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>4</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>5</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td></td>
</tr>
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</table>

Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
</tbody>
</table>

**Critical Thinking**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

---

# Degree Requirements

**Art & Design Electives**

Select 27 credits (15 credits must be 300-level and above studio courses) 27

**Senior Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 31

**Print and Narrative Forms Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
</tr>
</tbody>
</table>

---

# Art BFA – Sample Curriculum in Print and Narrative Forms

## Year 1

### Fall

(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
</tr>
<tr>
<td>University Core 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

---

1. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
2. Required for Painting and Drawing concentration.
3. Required for Digital Studio Practice concentration.
5. Required for Photography and Imaging concentration.
Art & Design Elective

ART 591
ART 604

Year 4

Art History choice 3

Select two of the following:

ART 509
ARTHIST 102

Credits

3

Year 3

Fall

Select two of the following:

ART 391
or ART 394
Interpret Print & Narrative Forms: (subtitle)

Credits

3

University Core 1

Spring

ART 392
Lithography

ART 391
Intermediate Print & Narrative Forms:

ART 337
Screen Printing on Fabric

ART & Design Elective

3

Art & Design Elective

3

Art & Design Elective

3

ARTHIST 102
Renaissance to Modern Art and Architecture 3

3

Credits

15

Year 4

Fall

ART 604
Professional Practices

ART 591
Portfolio in Print and Narrative Forms

or ART 495
Advanced Printmaking:

Art & Design Elective

3

Art & Design Elective

3

Art & Design Elective

3

University Core 1

3

Credits

15

Spring

ART 605
BFA Exhibition

ART 597
Senior Project in Print and Narrative Forms

ART & Design Elective

3

ART & Design Elective

3

Credits

18

1. Consult your academic advisor in the Peck School of the Arts
2. Recommend ART 253.
3. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.
4. ART 350 recommended.

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<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Appeal Process
An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

### Advising
**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
(closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

### Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

### Honors in the Peck School of the Arts

#### Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

#### Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Art, BFA: Sculpture
Our program focuses on instilling in every student the practical, hands-on knowledge of materials and fabrication techniques necessary to cross boundaries, invent processes, and explore innovative content in the areas of object-making, installation, performance, site-work, time-based art, and digital forms.

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>University Core</strong> (p. 127)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>First Year Program (p. 128)</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Art &amp; Design Core (p. 128)</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>BFA Degree Requirements (p. 128)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Area of Concentration (p. 128)</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>130</strong></td>
</tr>
</tbody>
</table>

### University Core
The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Competencies 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Parts A &amp; B 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math Parts A &amp; B 2</td>
<td></td>
</tr>
</tbody>
</table>
Foreign Language  

Distribution Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
</tbody>
</table>

Social Science: 6 credits

Natural Science (1 course with lab): 6 credits

Cultural Diversity: 2 credits

Electives

Advanced ARTHIST course: 6 credits

Select 3 arts areas outside Art and Design: 9 credits

Select 3 credits in an arts area: 3 credits

Select 9 credits outside Peck School of the Arts: 9 credits

Total Credits: 45 credits

---

Learn more about the General Education Requirements (p. 29).

Credit may be utilized in required curriculum areas.

---

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

---

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 Level Studio Electives</td>
<td>Select 3-6 credits of the following: 3-6</td>
<td></td>
</tr>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>2</td>
</tr>
<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>4</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Fiber Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>5</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metallsmithing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

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Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art &amp; Design Electives</td>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
<td>27</td>
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</table>

Senior Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
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</table>

Sculpture Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sculpture Introductory</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
</tbody>
</table>

Sculpture Required Core

**Part 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 261</td>
<td>Sculpture Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 268</td>
<td>Sculptural Practices: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop: (subtitle)</td>
<td>3</td>
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<td></td>
<td>Total Credits</td>
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**Part 2**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 665</td>
<td>Senior Project in Sculpture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>24</td>
</tr>
</tbody>
</table>

---

1. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
2. Required for Painting and Drawing concentration.
3. Required for Digital Studio Practice concentration.
5. Required for Photography and Imaging concentration.

---

1 Part 1 and Part 2 should equal 18 credits combined.
Art BFA – Sample Curriculum in Sculpture

Year 1

Fall Credits
ART 101 Drawing I 3
ART 106 Art Survey 3
ART 109 3D Concepts 3
University Core 1 3
University Core 3 3

Credits 15

Spring
ART 108 2D Concepts 3
ART 118 Digital Arts: Culture, Theory, Practice 3
Select one of the following: 3
ART 261 Introduction to Sculpture
200-level studio in Art
University Core 1 3
University Core 3 3

Credits 18

Year 2

Fall
Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Select one of the following: 3
ART 261 Introduction to Sculpture
200-level studio in Art
200-level studio in Art
200-level studio in Art
ART 309 Issues in Contemporary Art: (Visiting Artist Lecture Series) 3
ARTHIST 101 Ancient and Medieval Art and Architecture 2 3
University Core 1 3

Credits 15

Spring
ART 368 Sculptural Practices: (subtitle) 3
Art & Design Elective 3
Art & Design Elective 3
ARTHIST 102 Renaissance to Modern Art and Architecture 2 3
University Core 1 3

Credits 15

Year 3

Fall
ART 368 Sculptural Practices: (subtitle) 3
ART 369 Sculpture Workshop: (subtitle) 3
Art & Design Elective 3
Art & Design Elective 3
Advanced Art History choice 2 3
University Core 1 3

Credits 15

Spring
ART 468 Advanced Sculptural Practices: (subtitle) 3
ART 469 Sculpture Workshop: (subtitle) 3
ART 509 Art & Design Seminar: (subtitle) 3
Advanced Art History choice 2 3
University Core 1 3

Credits 15

Year 4

Fall
ART 604 Professional Practices 3

Credits 3

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts distribution requirement is part of the 45-credit core: 9 credits outside of Art & Design, in three of the four other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

Art & Design Undergraduate Incoming and Transfer Student Scholarship Portfolio Submissions

Applicants to the Art & Design program (including Art Education) are strongly encouraged to submit a portfolio of artworks and additional supporting materials, as described below, for review by the Art & Design Scholarship Committee:

1. Art & Design Incoming Portfolio Scholarship Application Form.
   Complete the online form here (https://uwm.edu/arts/apply/).

2. Portfolio of artworks. Provide 8 – 10 examples of artwork from the past two years. If including drawings, we recommend at least three from observation (not from photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000 px max preferred.

3. As a part of the online application you will provide a personal statement that relates to your interest in Art & Design and how your work at Peck School of the Arts will help you achieve your career goals.

Art & Design awards Incoming Scholarships based on this incoming portfolio. Admitted students interested in applying for scholarship aid should do so by December 15 for priority consideration. Portfolios will be accepted after this date but may not be considered for scholarships.
General information: art-admission@uwm.edu; https://uwm.edu/arts/art-and-design/.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

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Honors in the Peck School of the Arts

Dean's Honor List

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Honors Degree and Honors Degree with Thesis

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Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, MA: Design Entrepreneurship and Innovation

The Art & Design department is currently not accepting applications to the Art MA: Design Entrepreneurship and Innovation program.

The Master of Arts in Art: Specialization in Design Entrepreneurship + Innovation is a 30-credit program wherein students will merge design thinking, innovation, theory and contemporary design practice to develop design solutions that affect positive social, economic and technological change.

The Department of Art and Design offers graduate programs of study in art and design, and art education. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department's facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.
The Peck School of the Arts’ Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students, depending on funding. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

Students applying for admission to the three graduate programs in Art and Design, should note these application deadlines:

Application deadlines

For Fall admission to the MA and MFA graduate programs in Art, the Graduate School recommends completing the online application one year in advance of intended enrollment (check http://uwm.edu/arts/art-and-design/graduate/ for more specific information) with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application (https://graduateschool-apply.uwm.edu/) page by February 1. If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major or minor in art or design, or related field, or a body of work that demonstrates professional or research interest in design thinking and/or making.
2. Submission of a digital portfolio with 20 images of original work or other examples of design making, design thinking or design research.
3. Submission of a brief description of each work sample included in the digital portfolio.
4. Submission of a written personal statement of the proposed program of study.
5. Three (3) letters of recommendation.

See the department's website for more details, including required file formats and submission process for application materials.

Applicants may be admitted to the program with specific program-defined course deficiencies. The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitors the deficiencies. Deficiency course credits may not be applied towards the degree.

Credits and Courses

Minimum degree requirement is 30 graduate credits. At least 18 credits must be taken in Art and Design and at least 6 credits must be taken in Complementary Studies outside of Art and Design. Consult the Department of Art and Design Office of Graduate Studies for a list of approved courses in Complementary Studies.

All graduate students in the Department of Art and Design must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

Additional Requirements

Advising

Upon admission, the Director of Graduate Studies in the Department of Art and Design in consultation with the Graduate Faculty will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student's first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student's second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student's area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student’s Major Professor will serve as the Chair of the student's Graduate Thesis Committee.

A student who wishes to change his/her designated MA specialization must first apply and be accepted into the specialization. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies. If the student is accepted into the specialization, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student’s major professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new major professor, and notify the Director of subsequent changes to the student’s committee.

Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MA program.

Graduate Review

Each year, the student must participate in at least one Graduate Review.

MA Thesis

Upon recommendation of the Graduate Thesis Committee, the student will complete a MA Thesis project and presentation of the work executed during the student’s graduate studies. The MA Thesis may be a gallery exhibition, public performance, pitch session, or another form appropriate
to the student's research, and must be approved by the student’s Major Professor.

**Comprehensive Examination**
The student must pass a final oral and written examination.

**Time Limit**
The UWM Graduate School requires that students complete all degree requirements within five years of initial enrollment.

**Art, MA: Studio Art**
The Department of Art and Design offers graduate programs of study in art and design, and art education. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department's facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

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**Requirements**

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in art, or related field, including at least 40 studio credits and at least 45 academic credits outside the major.
2. Submission of a digital portfolio with 20 images of original work.
3. Submission of a written personal statement of the proposed program of study.
4. Three (3) letters of recommendation.

See the department’s website for more details, including required file formats and submission process for application materials.

Applicants may be admitted to the program with specific program-defined course deficiencies. The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitors the deficiencies. Deficiency course credits may not be applied towards the degree.

**Credits and Courses**
Minimum degree requirement is 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 901</td>
<td>Seminar in Art-Philosophy and Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 additional graduate credits in art seminars</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 18 graduate credits in studio arts</td>
<td>18</td>
</tr>
<tr>
<td>Art History</td>
<td>Select 3 graduate credits in art history</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits in graduate-level coursework in a discipline related to the student’s research interests</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

All graduate students in the Department of Art and Design must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

**Additional Requirements**

**Advising**
Upon admission, the Director of Graduate Studies in the Department of Art & Design, in consultation with the Graduate Faculty, will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student’s first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student’s second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student’s area of focus. If a student desires, the fourth member of the committee may be from
outside the university. The student's Major Professor will serve as the Chair of the student's Graduate Thesis Committee.

A student who wishes to change his/her designated area of focus must first apply and be accepted into the new focus. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies. If the student is accepted into the new area of focus, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student's major professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new major professor, and notify the Director of subsequent changes to the student's committee.

Transfer of Credits
Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MA program.

Graduate Review
Each year, the student must participate in at least one Graduate Review.

Thesis Exhibition
Upon recommendation of the Graduate Thesis Committee, the student presents a thesis exhibition or presentation of work centering on the student's area of focus and executed during graduate studies.

Comprehensive Examination
The student must pass a final oral and written examination.

Time Limit
The UWM Graduate School requires that students complete all degree requirements within five years of initial enrollment.

Art, MFA
The Department of Art and Design offers graduate programs of study in art and design, and art education. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department's facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts’ Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students, depending on funding. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

Students applying for admission to the three graduate programs in Art and Design, should note these application deadlines:

Application deadlines
For Fall admission to the MA and MFA graduate programs in Art, the Graduate School recommends completing the online application one year in advance of intended enrollment (check http://uwm.edu/arts/art-and-design/graduate/ for more specific information) with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application (https://graduateschool-apply.uwm.edu/) page by February 1. If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in art, or a related field, including at least 40 studio credits and at least 45 academic credits outside the major.
2. Submission of a digital portfolio with 20 images of original work.
3. Submission of a written personal statement of the proposed program of study.
4. Three (3) letters of recommendation.

See the department’s website for more details, including required file formats and submission process for application materials.

At the completion of 30 graduate credits (minimum 18 credits studio art, 3 credits Art History, 3 credits of graduate-level coursework in a discipline related to the student's research interests, and 6 credits graduate art seminar), the MFA candidate is required to complete a mid-program review. The mid-program review consists of a written reflection on the first 30 credits of study in the program, a plan of action for the final 30 credits and MFA Thesis Exhibition, and a presentation (to the student's Thesis Committee) of a body of work completed during the first 30 credits. After the Thesis Committee approves this mid-program review, the student may proceed to the final 30 graduate credits, MFA Thesis and oral and written qualifying examinations.

If the applicant already holds the Master of Science or Master of Arts degree, the applicant must submit graduate transcripts in addition to the digital portfolio, personal statement, and three letters of recommendation. If the MS or MA degree is approved by the UWM Graduate School and the Director of Graduate Studies in the Department of Art and Design (in consultation with the Graduate Faculty), the MFA candidate will complete 30 credits toward the MFA degree.

Applicants may be admitted to the program with specific program-defined course deficiencies.
The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitor the deficiencies. Deficiency course credits may not be applied towards the degree.

Credits and Courses

Minimum degree requirement is 60 graduate credits for MFA candidates who do not hold an MA or MS degree. Sixty-credit degree candidates plan a program of studies that includes the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 36-42 credits in studio art</td>
<td>36-42</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Art History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 901 Seminar in Art-Philosophy and Concepts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 additional credits in graduate art seminar</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6-12 credits in graduate-level coursework in a discipline related to the student's research interests</td>
<td>6-12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

MFA Candidates Holding Previous MA or MS Degrees

Minimum degree requirements for MFA candidates holding a previous MA or MS degree is 30 graduate credits. 30-credit degree candidates plan a program of studies that includes the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3 credits in a graduate art seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 18 to 24 credits in studio art</td>
<td>18-24</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in a graduate-level course in a discipline related to the student's research interests</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 0 – 6 credits in areas related to student's research interests</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

All graduate students must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

Additional Requirements

Advising

Upon admission, the Director of Graduate Studies in the Department of Art and Design in consultation with the Graduate Faculty will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student's first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student’s second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be UWM graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student’s area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student’s Major Professor will serve as the Chair of the student’s Graduate Thesis Committee.

A student who wishes to change his/her designated area of focus must first apply and be accepted into the new focus. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies in the Department of Art and Design. If the student is accepted into the new area of focus, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student’s Major Professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new Major Professor, and notify the Director of subsequent changes to the student's committee.

Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MFA program.

Graduate Review

MFA candidates must participate in at least one Graduate Review each academic year.

Thesis Exhibition

Upon recommendation of the major professor the student presents a thesis exhibition of work executed since admission to the program. The exhibition is held during the semester in which the student completes the coursework for the degree.

Comprehensive Examination

The student must pass a final oral and written examination.

Time Limit

The UWM Graduate School requires that the student complete all degree requirements within a specific time limit. A student in the 60-credit MFA program must complete all degree requirements within seven years. A student in the 30-credit MFA program must complete all degree requirements within five years.

Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts, Department of Art and Design)

The Certificate in Arts Integration and Learning is a 15 credit, multidisciplinary program offered jointly by the Department of Art and Design in the Peck School of the Arts and the Department of Curriculum & Instruction in the School of Education.

This program is designed to give undergraduate and post baccalaureate students an understanding of best practices in arts integration with an emphasis on project based learning through students’ capstone experience. The Certificate is for students in any teacher certification program at the University of Wisconsin-Milwaukee, but especially for Early Childhood Education; Middle Childhood/Early Adolescence Education; Art, Music, Dance, or Theatre Education students who wish to complement their major with an additional concentration in Arts Integration.

The Certificate in Arts Integration and Learning is also open to all students seeking a Bachelor’s degree or post baccalaureate certification from UWM and to students who previously received a Bachelor’s
degree with teacher certification from UWM or any other accredited college or university. Additionally, the Certificate is open to non-degree students who have a strong interest in this area. Students completing the Certificate not in conjunction with a degree must be admitted to the university as non-degree students and meet regular university admission requirements. Students completing the Certificate not in conjunction with a degree are not eligible for financial aid.

Requirements

The Arts Integration and Learning Certificate consists of 15 credits. Students must achieve a grade point average of 2.5 or above in all courses counting towards the Certificate. Courses counting for the Certificate may not be taken on a credit/no credit basis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Teaching and Learning Course</td>
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</tr>
<tr>
<td>Core</td>
<td>Select one of the following:</td>
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<tr>
<td>ART ED 227</td>
<td>Introduction to Art Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 538</td>
<td>Literacy 3: Introduction to New Literacies</td>
<td></td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td></td>
</tr>
<tr>
<td>CURRINS 651</td>
<td>Literature for the Young Child</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>ART 150</td>
<td>Multicultural America</td>
<td></td>
</tr>
<tr>
<td>ART 306</td>
<td>Introduction to Community Art</td>
<td></td>
</tr>
<tr>
<td>ART 402</td>
<td>Art and Design Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>ART ED 228</td>
<td>Learning Processes in Art Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 400</td>
<td>Field Work in Curriculum and Instruction:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
<td></td>
</tr>
<tr>
<td>CURRINS 579</td>
<td>Current Topics in Curriculum and Instruction:</td>
<td></td>
</tr>
<tr>
<td>DANCE 219</td>
<td>Arts in Community Service</td>
<td></td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td></td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
<td></td>
</tr>
<tr>
<td>DANCE 460</td>
<td>Teaching Dance in Community Settings</td>
<td></td>
</tr>
<tr>
<td>FILM 150</td>
<td>Multicultural America</td>
<td></td>
</tr>
<tr>
<td>MUS ED 260</td>
<td>Making Music Connections with Children</td>
<td></td>
</tr>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td></td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling:</td>
<td></td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
<td></td>
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<tr>
<td>Capstone Course</td>
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<tr>
<td>ART ED 489 or CURRINS 500</td>
<td>Art Education Workshop: Workshop in Curriculum and Instruction:</td>
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</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday

Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Community Arts, Undergraduate Certificate

Coordinators: Raoul Deal, Senior Lecturer in the Department of Art and Design, and the Undergraduate Advisor for the Department of Art and Design.

The Certificate in Community Arts is open to all students seeking a Bachelor’s degree from UWM, to students who previously received a Bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

The certificate is designed to give students an opportunity to explore art in community settings. It is geared towards those interested in social engagement, environmental issues, community building, public art, and placemaking. Most certificate courses highlight art practices that integrate collaborative processes and social cooperation. Certificate students will also benefit from a minimum of three service-learning experiences. They will be prepared to work as artists in grassroots organizations, community institutions, non-profit arts organizations, and educational institutions.

Interested students should contact the program coordinator as soon as they decide to pursue the Community Arts Certificate. The coordinator’s function is to help the student design a program of study from among the available courses and to guide the student in completing that program in sequence.

Requirements

Students enrolling in the Community Arts Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 400-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td></td>
</tr>
</tbody>
</table>
Digital Fabrication and Design, Undergraduate Certificate

Coordinator: Yevgeniya Kaganovich
Undergraduate Advisor, Department of Art and Design: Leah Schreiber-Johnson

The Certificate in Digital Fabrication and Design is open to all students seeking a bachelor’s degree from UWM, to students who previously received a Bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the University as non-degree students, individuals must meet regular university admission requirements (p. 15).

Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

This certificate is designed to give students an understanding of the software environments, materials, and equipment used in 2D and 3D digital fabrication excluding architectural scale. The certificate is for students in any major at the University of Wisconsin-Milwaukee, but specifically for Art & Design students who wish to complement their major with an additional concentration in Digital Fabrication.

Interested students should contact the program coordinator as soon as they decide to pursue the Digital Fabrication and Design Certificate. The coordinator’s function is to help the student design a program of study from among the available courses and to guide the student in completing that program.

Requirements

Students enrolling in the Digital Fabrication and Design Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 500-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 278</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 378</td>
<td>Digital Fabrication and Craft</td>
<td>3</td>
</tr>
<tr>
<td>ART 478</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 526</td>
<td>Research in Digital Fabrication and Craft: (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to approval by the Certificate Program Committee.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/ (http://uwm.edu/arts/advising/)

Digital Fabrication and Design, Undergraduate Certificate

Coordinator: Yevgeniya Kaganovich
Undergraduate Advisor, Department of Art and Design: Leah Schreiber-Johnson

The Certificate in Digital Fabrication and Design is open to all students seeking a bachelor’s degree from UWM, to students who previously received a Bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the University as non-degree students, individuals must meet regular university admission requirements (p. 15).
Dance

The Department of Dance offers two undergraduate degree programs that lead to a bachelor's degree in dance: the Bachelor of Fine Arts in Dance (Performance and Choreography/Contemporary), the Bachelor of Arts (BA) in Dance. Also available is a minor in Somatics and a minor in Dance Performance. Finally, the Department of Dance also offers a Master in Fine Arts (MFA) in Dance.

Dance Program Mission Statement and Program Descriptions

The Department of Dance at UWM is committed to the development and training of skillful and vibrant dance artists and educators in their pursuit of a comprehensive education built upon diverse dance practices, research, and community engagement. Our department supports a thriving local and regional presence, while it opens avenues and opportunities for national and global perspectives. We offer undergraduate and graduate programs that emphasize artistic individuality and the development of the professional skills required for successful careers in dance performance, choreography, and education. Our innovative curriculum integrates multiple dance disciplines and somatic practices, creating a learning environment that prioritizes a balance of body and mind knowledge with informed, creative expression.

Our training environment consists of full-time faculty, lecturers, and guest artists who reflect strong beliefs in multiple points of view, a passionate commitment to individual development, and dedication to serving the versatile interests of our students. Renowned guest artists contribute to the dance department's curriculum each semester by providing students direct experience with current and diverse global practices in the field. These programs ensure that we offer our students directed, relevant training as the foundation for successful and sustainable careers in dance and related fields.

The creative research of both the faculty and students reflects our commitment to investigate the historical and cultural relevance of contemporary and traditional world dance forms. These pursuits ensure that we examine and support the vibrancy of cultural traditions while generating new knowledge. Intertwining creativity, scholarship, and interdisciplinary dialogue, our program is dedicated to the exploration and development of somatic inquiry, technology integration, critical thought, and original choreography.

Programs

- Dance Performance, Minor (p. 138)
- Dance, BA (p. 139)
- Dance, BFA (p. 142)
- Dance, MFA (p. 145)
- Pilates, Undergraduate Certificate (p. 146)
- Somatics, Minor (p. 147)

Scholarships

The Dance Department distributes around $15-20,000 in scholarships and awards to undergraduate students each year, ranging from $400-2000 per year (amount split over fall/spring semesters, summer available upon request). Students may be awarded multiple awards over their time in the Dance Program. uwm.edu/arts/scholarships/ (http://uwm.edu/arts/scholarships/)

1. **Incoming Student Award**: no application required; award is faculty-nominated based on the student’s entrance audition for admission to the program. Scholarships may not be available after the UWM priority application deadline (March 1). Award may be for one year only, or for up to four years, as long as the student continues to meet the stated requirements.

2. **Dance Undergraduate Student Scholarship**: application required, and students must have completed at least one semester of the Dance Program. Demonstrated excellence in the Dance Major is the main criteria.

3. **Ed Burgess Legacy Scholarship**: no application required; award is faculty-nominated for a student who will have junior or senior status who embodies and demonstrates the highest qualities of commitment and professional dedication to the art of dance, and has an established record of excellence in all aspects of the program. Award is for one year only, and student must have completed at least 2 semesters in the Dance Program, and be attending full-time during the award semesters.

To be eligible for any Dance Scholarship (available to Dance majors only), students must meet the following criteria:

- Full-time enrollment (6 or more Dance credits each semester)
- Dance GPA of 3.5 or above
- Adherence to departmental curricular requirements
- Students who do not meet these criteria for all semesters of their award may forfeit all or part of their scholarship.

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Burkholder</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Ferne Caulker-Bronson</td>
<td>Professor</td>
<td>BS</td>
<td>University of Iowa</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Simone Ferro</td>
<td>Professor</td>
<td>MFA</td>
<td>University of California, Los Angeles</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Maria Gillespie</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Gloria Gustafson</td>
<td>Associate Professor</td>
<td>BA</td>
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<td></td>
<td>✓</td>
</tr>
<tr>
<td>Mary Hibbard</td>
<td>Assistant Professor</td>
<td>Unlisted</td>
<td>University of Wisconsin - Milwaukee</td>
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<td>✓</td>
</tr>
<tr>
<td>Danielle Kuepper</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Debra Loewen</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>
Dance Performance, Minor

The Minor in Dance Performance is designed to accommodate two different groups of students. The first group of students have years of dance training prior to entering the university and wish to continue to dance while pursuing another major at UWM. The second group of students have the desire for dance performance training, but no prior opportunity before coming to UWM.

Please note: For all Dance majors and minors, dance courses with a grade C- or below will not be counted toward any departmental degree.

Admission Requirements for the Minor in Dance Performance

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the Minor in Dance Performance coursework, students must apply for (http://uwm.edu/arts/dance/minor-application/)and be accepted into the minor. Potential and current students must have a 2.75 overall GPA to be accepted and continue in the Minor of Dance Performance.

No more than 6-8 credits (2-3 courses) will be applied toward the minor until after a student has been admitted and a Dance Faculty Advisor has been assigned. All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements for the Minor in Dance Performance.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>Choose 3 credits:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 110</td>
<td>Survey of Global Dance: Rituals, Performance and Community</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>Choose 1 credit:</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td></td>
</tr>
<tr>
<td>DANCE 491</td>
<td>Repertory/Student Choreographer</td>
<td></td>
</tr>
<tr>
<td><strong>Dance Technique and Somatics Courses</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Choose 15 credits:</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td></td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td></td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 22

1. Any dancer cast in faculty or guest artist choreography must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 3 times per week during the rehearsal semester.
2. Any dancer cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.
3. Students completing the Dance Performance minor may enroll in and complete a maximum of 2 courses from the Somatics Course List.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.
Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Dance, BA

The Bachelor of Arts (BA) in Dance prepares students to teach participatory movement traditions in community settings, and to lead community groups in creating and performing their own dances and movement rituals. Community-based service-learning experiences provide many opportunities to realize these goals. Many Dance BA students pursue a double major at UWM; the service-learning component provides an opportunity to integrate the content of the two areas of study.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Dance Technique and Somatics</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Dance Creative and Academic</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>General Electives (May Include Dance Electives)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>120</td>
<td></td>
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</tbody>
</table>

University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B 2</td>
<td>6</td>
<td></td>
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<tr>
<td>Foreign Language 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>6</td>
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<tr>
<td>Natural Sciences (Must include one lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Additional Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Credits in Peck School of the Arts 3</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>University Credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

1 Learn more about the General Education Requirements (p. 29).
2 Credits may be utilized in required curriculum areas.
3 Chosen from three of the following departments in PSOA: Art & Design, Fine Arts, Theatre, or Film, Video, Animation, and New Genres.

Please note: For all Dance majors and minors, dance courses with a grade C- or below will not be counted toward any departmental degree.

Dance Foundations Curriculum

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td>9</td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
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</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV 5</td>
<td></td>
</tr>
<tr>
<td>DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td></td>
</tr>
<tr>
<td>DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
<td></td>
</tr>
<tr>
<td>DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition IV 5</td>
<td></td>
</tr>
</tbody>
</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 110</td>
<td>Survey of Global Dance: Rituals, Performance and Community 6</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 319</td>
<td>Dance Service-Learning</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble 7</td>
<td></td>
</tr>
<tr>
<td>DANCE 352</td>
<td>Digital Media Portfolio for Performers</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 412</td>
<td>Dance Composition I 6</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Creating Dance in the Community 6</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 460</td>
<td>Teaching Dance in Community Settings</td>
<td>3</td>
</tr>
</tbody>
</table>
DANCE 601 Senior Project 3

**Recommended BA Course Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 115 &amp; DANCE 116</td>
<td>Jazz Dance I and Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 117 &amp; DANCE 217</td>
<td>Tap I and Tap II</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 209</td>
<td>Dance Production</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 309</td>
<td>Dance Production Practicum</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 310</td>
<td>Jazz III</td>
<td>2</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 319</td>
<td>Dance Service-Learning</td>
<td></td>
</tr>
<tr>
<td>Select one or all of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DANCE 321 &amp; DANCE 421</td>
<td>Alexander Technique for the Performer and Alexander Technique Practicum</td>
<td></td>
</tr>
<tr>
<td>DANCE 323 &amp; DANCE 623</td>
<td>Body Conditioning: Pilates Method and Body Conditioning: Pilates Method II</td>
<td></td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
<td></td>
</tr>
<tr>
<td>DANCE 624 &amp; DANCE 625</td>
<td>Feldenkrais for Performers</td>
<td></td>
</tr>
<tr>
<td>DANCE 427</td>
<td>Dance for the Musical Theatre I</td>
<td></td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions:</td>
<td></td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy</td>
<td></td>
</tr>
<tr>
<td>DANCE 414</td>
<td>Dance Composition III</td>
<td>2-3</td>
</tr>
<tr>
<td>DANCE 489</td>
<td>Workshop in Dance: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>DANCE 490 or DANCE 491</td>
<td>Repertoire and Ensemble or Repertory/Student Choreographer</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 491</td>
<td>Repertory/Student Choreographer</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 624</td>
<td>Feldenkrais for Performers</td>
<td></td>
</tr>
<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
<td></td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship (subtitle)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 78-79

4 3 credits if GER-CD is desired for DANCE 122.
5 Students must pass with a B minimum.
6 Coursework involved in MPPR guidelines.
7 Any dancer cast in faculty or guest artist choreography must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 3 times per week during the rehearsal semester.
8 Coursework involved in MPPR guidelines.
9 Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.
10 Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in DANCE 490 for 1 credit during the appropriate semester.
11 Any student cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.

**Recommended Course of Study**

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
</tr>
<tr>
<td>DANCE 220</td>
<td>Body Sense</td>
</tr>
<tr>
<td>University Core</td>
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</tbody>
</table>

Credits 15

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 110</td>
<td>Survey of Global Dance: Rituals, Performance and Community</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
</tr>
</tbody>
</table>

Credits 15

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
</tbody>
</table>

| Select one of the following: | |
| DANCE 115 | Jazz Dance I | | 2       |
| DANCE 117 | Tap I | | 2       |
| DANCE 370 | World Movement Traditions: (approved Sub-topic) | | 3       |
| DANCE 412 | Dance Composition I | | 3       |
| University Core | | 3       |

Credits 14

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
</tr>
<tr>
<td>DANCE 211 or DANCE 213</td>
<td>Contemporary Dance Practice: Ballet Tradition III or Contemporary Dance Practice: Modern Tradition III Elective (May be taken in Dance)</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
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</tbody>
</table>

Credits 14

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
</tbody>
</table>

| Select one of the following: | |
| DANCE 115 | Jazz Dance I | | 3       |
| DANCE 117 | Tap I | | 3       |
| DANCE 370 | World Movement Traditions: | | 3       |
| DANCE 212 or DANCE 214 | Contemporary Dance Practice: Ballet Tradition IV or Contemporary Dance Practice: Modern Tradition IV | | 3       |
| DANCE 251 | Laban Movement Analysis I (QL-B) | | 3       |
| University Core | | 3       |

Credits 17
prospective students must:

To RSVP for a specific audition date, or to submit the video audition form twice per academic year (via any method).

On-campus audition
- Performance video (DVD or URLs in online form).
- 5 minutes each of two contrasting dance techniques, and 2-3 minutes of sample, one-minute solo performance (can be self-choreographed), and Q&A session. Video submission (only with prior authorization via email to dance-admission@uwm.edu) consists of writing sample, 5 minutes each of two contrasting dance techniques, and 2-3 minutes of performance video (DVD or URLs in online form).
- Auditions after the last on-campus audition will be by appointment or via video submission. If unsuccessful, students may re-audition, but are limited to auditioning twice per academic year (via any method).

To RSVP for a specific audition date, or to submit the video audition form (after authorization), prospective students must:

1. complete the appropriate online form at uw.edu/arts/apply (http://uwm.edu/arts/apply/) and
2. submit separate copies of their high school and/or college transcripts (unofficial copies are acceptable for this purpose).

Transcripts and/or video footage should be sent to dance-admission@uwm.edu or UWM Dance Admission, P.O. Box 413, Milwaukee, WI 53201.

UWM priority application deadline is March 1.

Transfer students must complete a minimum of half of the required dance credits while in residence at UWM in order to graduate. The exact total is available upon admission to the program. Transcript evaluation by a dance advisor is required before placement into dance major courses.

Once accepted, students may enter the program during either fall or spring semesters, but are strongly encouraged to enter in the fall term to progress more smoothly through the BA or BFA curricular sequence.

Retention Requirements

Each undergraduate dance major’s coursework will be reviewed at the end of his/her sophomore year to determine continuance in the major, as part of the Mid-Program Portfolio Review. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department’s academic requirements. Each student’s ability to undertake the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

Laptops

Dance BA and BFA students are required to have a laptop computer (or comparable tablet meeting minimum specifications) by the beginning of their sophomore year, but are strongly encouraged to have one when they enter the program. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (uwm.edu/arts/apply/laptop/) and in the Dance Undergraduate Student Handbook. Website also includes information on using financial aid to fund this expense.

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 352 Digital Media Portfolio for Performers</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 319 Dance Service-Learning 2,4</td>
<td>1</td>
</tr>
<tr>
<td>or DANCE 490 or Repertoire and Ensemble</td>
<td></td>
</tr>
<tr>
<td>DANCE 420 Creating Dance in the Community</td>
<td>3</td>
</tr>
<tr>
<td>Dance or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>PSOA Core</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>16</td>
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</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>DANCE 460 Teaching Dance in Community Settings</td>
<td>3</td>
</tr>
<tr>
<td>Dance and/or University Electives</td>
<td>6</td>
</tr>
<tr>
<td>PSOA Core</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 601 Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>Dance and/or University Electives</td>
<td>8</td>
</tr>
<tr>
<td>PSOA Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

| Total Credits                       | 120     |
Honors in the Peck School of the Arts

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

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For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Dance, BFA

The Performance and Choreography/Contemporary Track in the Bachelor of Fine Arts (BFA) in Dance prepares students to perform and create original dance choreography for theatrical productions. Dance BFA students complete a rigorous technical and creative curriculum designed to develop the student’s individual artistic voice. Contemporary Track majors additionally study body/mind sciences, dance pedagogy, historical and cultural contexts for dance, and the interactive collaboration skills necessary to bring dance to the theatre with a high degree of excellence.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td></td>
<td>42</td>
</tr>
<tr>
<td>Dance Technique</td>
<td></td>
<td>38</td>
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<tr>
<td>Dance Creative</td>
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<td>Dance Academic</td>
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<td>Dance Electives</td>
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<td>5</td>
</tr>
<tr>
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<td></td>
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</tr>
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</table>

University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td></td>
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<tr>
<td>Competencies</td>
<td></td>
<td></td>
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<tr>
<td>Oral and Written Communication – Part A and Part B</td>
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<td>Quantitative Literacy (QL) – Part A and Part B</td>
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<td>Distribution Requirements</td>
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<td>Humanities</td>
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<td>Natural Sciences (Must include one lab)</td>
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<td>Cultural Diversity</td>
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<td>Electives</td>
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<tr>
<td>Additional Electives</td>
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<tr>
<td>Credits in Peck School of the Arts</td>
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<td>3</td>
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<tr>
<td>University Credits</td>
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<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

1 Learn more about the General Education Requirements (p. 29).
2 Credits may be utilized in required curriculum areas.
3 Chosen from three of the following departments in PSOA: Art & Design, Fine Arts, Theatre, or Film, Video, Animation, and New Genres.

Please note: For all Dance majors and minors, dance courses with a grade C- or below will not be counted toward any departmental degree.

Dance Foundations Curriculum

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
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</tr>
<tr>
<td>Total Credits</td>
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Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Dance Technique Courses</td>
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<td>15</td>
</tr>
<tr>
<td>Contemporary Dance Practice: Modern Tradition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 5 semesters:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td></td>
</tr>
<tr>
<td>DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td></td>
</tr>
<tr>
<td>DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
<td></td>
</tr>
<tr>
<td>Dance Course Code</td>
<td>Dance Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition IV</td>
<td></td>
</tr>
<tr>
<td>DANCE 317</td>
<td>Contemporary Dance Practice: Modern Tradition V</td>
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</tr>
<tr>
<td>DANCE 318</td>
<td>Contemporary Dance Practice: Modern Tradition VI</td>
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</tbody>
</table>

**Contemporary Dance Practice: Ballet Tradition**

Select a minimum of 5 semesters: 15

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
</tr>
<tr>
<td>DANCE 311</td>
<td>Contemporary Dance Practice: Ballet Tradition V</td>
</tr>
<tr>
<td>DANCE 312</td>
<td>Contemporary Dance Practice: Ballet Tradition VI</td>
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</table>

**Complementary Dance Technique**

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
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</thead>
<tbody>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
</tr>
<tr>
<td>or DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
</tr>
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</table>

Choose one: 2

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I (if not selected above)</td>
</tr>
<tr>
<td>DANCE 116</td>
<td>Jazz Dance II</td>
</tr>
<tr>
<td>DANCE 117</td>
<td>Tap I</td>
</tr>
<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I (if not selected above)</td>
</tr>
<tr>
<td>DANCE 123</td>
<td>African Dance &amp; Diaspora Technique II</td>
</tr>
<tr>
<td>DANCE 217</td>
<td>Tap II</td>
</tr>
<tr>
<td>DANCE 222</td>
<td>African Dance &amp; Diaspora Technique III</td>
</tr>
<tr>
<td>DANCE 325</td>
<td>Pointe and Variations</td>
</tr>
<tr>
<td>DANCE 327</td>
<td>Dance for the Musical Theatre I</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions:</td>
</tr>
<tr>
<td>DANCE 427</td>
<td>Dance for the Musical Theatre II</td>
</tr>
<tr>
<td>DANCE 624</td>
<td>Feldenkrais for Performers</td>
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</table>

**Somatic and Conditioning Practices**

Choose 4 credits from the following: 4

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
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<tbody>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
</tr>
<tr>
<td>DANCE 220</td>
<td>Body Sense</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Alexander Technique Practicum</td>
</tr>
<tr>
<td>DANCE 623</td>
<td>Body Conditioning: Pilates Method II</td>
</tr>
<tr>
<td>DANCE 624</td>
<td>Feldenkrais for Performers</td>
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</table>

**Dance Creative Courses**

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 231</td>
<td>Music and Dancers I</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
</tr>
<tr>
<td>DANCE 352</td>
<td>Digital Media Portfolio for Performers</td>
</tr>
<tr>
<td>DANCE 412</td>
<td>Dance Composition I</td>
</tr>
<tr>
<td>DANCE 413</td>
<td>Dance Composition II</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
</tr>
<tr>
<td>DANCE 601</td>
<td>Senior Project</td>
</tr>
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</table>

**Dance Academic Courses**

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 209</td>
<td>Dance Production</td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I</td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy</td>
</tr>
<tr>
<td>DANCE 460</td>
<td>Teaching Dance in Community Settings</td>
</tr>
</tbody>
</table>

**Dance Elective Courses**

Choose from the following:

<table>
<thead>
<tr>
<th>Dance Course Code</th>
<th>Dance Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 110</td>
<td>Survey of Global Dance: Rituals, Performance and Community</td>
</tr>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
</tr>
<tr>
<td>DANCE 116</td>
<td>Jazz Dance II</td>
</tr>
<tr>
<td>DANCE 117</td>
<td>Tap I</td>
</tr>
<tr>
<td>DANCE 309</td>
<td>Dance Production Practicum</td>
</tr>
<tr>
<td>DANCE 310</td>
<td>Jazz III</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora</td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater</td>
</tr>
<tr>
<td>DANCE 319</td>
<td>Dance Service-Learning</td>
</tr>
<tr>
<td>DANCE 320</td>
<td>Rituals and Culture</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
</tr>
<tr>
<td>DANCE 327</td>
<td>Dance for the Musical Theatre I</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions:</td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
</tr>
<tr>
<td>DANCE 414</td>
<td>Dance Composition III</td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Alexander Technique Practicum</td>
</tr>
<tr>
<td>DANCE 427</td>
<td>Dance for the Musical Theatre II</td>
</tr>
<tr>
<td>DANCE 489</td>
<td>Workshop in Dance:</td>
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<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
</tr>
<tr>
<td>DANCE 491</td>
<td>Repertory/Student Choreographer</td>
</tr>
</tbody>
</table>

**Total Credits**: 78

---

4 100- and 200-level technique classes taken for 3 credits; 300-level for 2 credits

5 One Jazz or African technique class is required during sophomore year. If GER-Cultural Diversity credits are desired for DANCE 122, 3-credit section is mandatory.

6 Option: Students wishing to substitute one or two semester(s) of either ballet or modern (minimum 5 semesters of ballet and modern are required) for additional Complementary Dance Technique course(s) in Jazz, Africa and Diaspora Technique, Tap, Musical Theatre Styles: choose from DANCE 116, DANCE 117, DANCE 123, DANCE 217, DANCE 222, DANCE 327, DANCE 427. Student must approach his/her Dance Faculty Advisor the semester prior to enrollment for substitution approval.

7 Yoga, Pilates, Body Sense, Alexander Technique

8 Coursework involved in MPPR guidelines.

9 Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.
Recommended Course of Study

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 209</td>
<td>Dance Production</td>
<td>2</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Year 2</td>
<td>Fall</td>
<td>Credits</td>
</tr>
<tr>
<td>Somatic Course #1 (see list on Requirements tab)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DANCE 115 or DANCE 122</td>
<td>Jazz Dance I (3 cr. in 122 if GER-CD is desired) or African Dance &amp; Diaspora Technique I</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 412</td>
<td>Dance Composition I</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 231</td>
<td>Music and Dancers I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>PSOA Core</td>
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</tr>
<tr>
<td>Year 3</td>
<td>Fall</td>
<td>Credits</td>
</tr>
<tr>
<td>DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition IV</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 413</td>
<td>Dance Composition II</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>PSOA Core</td>
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<tr>
<td>Spring</td>
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</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
<td>3</td>
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<tr>
<td>DANCE 352</td>
<td>Digital Media Portfolio for Performers</td>
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<tr>
<td>Dance Elective (see list on Requirements tab)</td>
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<tr>
<td>Year 4</td>
<td>Fall</td>
<td>Credits</td>
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<td>DANCE 317</td>
<td>Contemporary Dance Practice: Modern Tradition V</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 460</td>
<td>Teaching Dance in Community Settings</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 601</td>
<td>Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>PSOA Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complementary Technique (see list on Requirements tab)</td>
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<td>2</td>
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</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>120</td>
</tr>
</tbody>
</table>

1. Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in DANCE 490 for 1 credit during the appropriate semester.
2. Any student cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.

Admission and Retention Requirements for the Dance BFA and BA

Admission Requirements

Please see uwm.edu/arts/apply (http://uwm.edu/arts/apply/) for information on admission starting spring 2017.

Students must meet general university admission requirements (p. 15) to be admitted to any of the undergraduate curricula as a freshman or transfer student. Passing the Dance Entrance Audition (on-campus or video) is required for entrance into the Dance BA or BFA degree programs.

On-campus auditions consist of a variety of technique classes, writing sample, one-minute solo performance (can be self-choreographed), and Q&A session. Video submission (only with prior authorization via email to dance-admission@uwm.edu) consists of writing sample, 5 minutes each of two contrasting dance techniques, and 2-3 minutes of performance video (DVD or URLs in online form). Auditions after the last on-campus audition will be by appointment or via video submission. If unsuccessful, students may re-audition, but are limited to auditioning twice per academic year (via any method).

To RSVP for a specific audition date, or to submit the video audition form (after authorization), prospective students must:

1. complete the appropriate online form at uwm.edu/arts/apply (http://uwm.edu/arts/apply/) and
2. submit separate copies of their high school and/or college transcripts (unofficial copies are acceptable for this purpose).

Transcripts and/or video footage should be sent to dance-admission@uwm.edu or UWM Dance Admission, PO. Box 413, Milwaukee, WI 53201.

UWM priority application deadline is March 1.

Transfer students must complete a minimum of half of the required dance credits while in residence at UWM in order to graduate. The exact total is available upon admission to the program. Transcript evaluation by a dance advisor is required before placement into dance major courses.

Once accepted, students may enter the program during either fall or spring semesters, but are strongly encouraged to enter in the fall term to progress more smoothly through the BA or BFA curricular sequence.
Retention Requirements
Each undergraduate dance major's coursework will be reviewed at the end of his/her sophomore year to determine continuance in the major, as part of the Mid-Program Portfolio Review. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements. Each student’s ability to undertake the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

Laptops
Dance BA and BFA students are required to have a laptop computer (or comparable tablet meeting minimum specifications) by the beginning of their sophomore year, but are strongly encouraged to have one when they enter the program. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (uwm.edu/arts/apply/laptop/) and in the Dance Undergraduate Student Handbook. Website also includes information on using financial aid to fund this expense.

Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Advising
Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

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Dance, MFA
The Department of Dance offers graduate study leading to the Master of Fine Arts in Dance. The program offers opportunity to hone technical skills, to explore personal intuition, imagination, and craft both in creating dance works and also in performing them, and to focus on critical areas of dance core studies.

The MFA in Dance is structured to meet the scheduling constraints of working dance professional performers, choreographers, and educators: A block of on-campus and distance learning coursework is available during the fall and spring semesters, in addition to the intensive summer graduate course offerings.

Our program consists of 60 credits with an emphasis on contemporary choreography and performance, focusing on the candidate's independent creative research. Graduate students engage in choreographic research through physical and theoretical inquiry while having the opportunity to examine their technical movement practice through current somatic perspectives. The program supports student research by providing facilities and customized opportunities to investigate and perform their work in Milwaukee. Through faculty mentorship and rigorous personal explorations, students are guided to integrate their research into a final thesis project.

Faculty teaching in the program are nationally and internationally acclaimed performing and choreographic artists in the field. Their research spans cultural perspectives, technical forms, somatic modalities, site-specific performance, improvisation, interdisciplinary collaboration, and technology and new media.

Our students are prepared to be future university dance professors, as well as secondary school educators with the means to expand their theoretical and choreographic skills, while simultaneously increasing their earning potential in academic institutions and K-12 public and private schools.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants who meet Graduate School requirements plus these program requirements may be admitted in good standing:

1. Reason Statement: Content must include the following:
   - Explain the aspects of your embodied practice and what you achieve through that experience (movement tradition, teaching, somatics, writing, performance, creation). How do you see your movement practice evolving in the field of contemporary performance?
   - Articulate how you investigate and create unique choreographic work based on your movement practice(s). Include how your intellectual interests inform your choreographic inquiry.
   - Out of state students will be considered for a Non-Resident-Tuition Remission Award. To qualify, please provide a one-paragraph statement of financial need to be included in your application. Include information of your current financial situation that outlines your economic need.
2. Required Work Sample: Work sample description page (no more than 3 pages total) with video URLs for 10-12 minutes of recent performance and/or choreography. This may consist of excerpted works (minimum two minutes from each work). Must include exact URL (web address) for each work (clickable links preferred, with passwords on the description page as necessary). For each work, the description should include choreographer, performers, venue, company or organization, dates, and any other applicable information (designers, etc.).
3. Required Curriculum Vitae or Resume (no more than 5 pages).
5. Recommendations: Two (2) recent recommendations from people who can provide information on your qualifications. The site permits the recommenders to write or upload their statements directly into the system (preferred) or the department can upload on behalf of the recommenders.

Credits and Courses
Minimum degree requirement in Performing Arts-Dance is 60 credits distributed as follows, of which at least 6 must be in complementary studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method 1</td>
<td>2-3</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 623</td>
<td>Body Conditioning: Pilates Method II 1</td>
<td>2-3</td>
</tr>
<tr>
<td>DANCE 611</td>
<td>Pilates Method Observation and Practice 2</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 685</td>
<td>Seminar in Pilates Student Teaching</td>
<td>2</td>
</tr>
<tr>
<td>KIN 230</td>
<td>Health Aspects of Exercise and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>or KIN 200</td>
<td>Introduction to Kinesiology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

1 Must be taken twice for a maximum of 4 credits.
2 Must be taken twice for a maximum of 2 credits.

Final Project
Each student must undertake a final project of either one or two semesters duration (4-8 cr.). The project must be approved by the major advisor. The project will inevitably relate to dance and movement, so that there is often a choreographic component involved, most likely a concert. These may occur in a variety of approved performance settings which may include on- or off-campus sites. Nonetheless, all projects require research and a written component, which will vary depending on the process (and number of credits), working with a thesis chair and two other committee members.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise studies as specified in Graduate School regulations; the student may not register for any courses without this advisor’s prior approval. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Pilates, Undergraduate Certificate

UWM Pilates Certificate prepares students to teach Beginning, Intermediate, and Advanced Pilates Mat and Equipment and develops a substantial, scientific basis for movement analysis through the rigorous study of Anatomy and Kinesiology.

Requirements
The Pilates Certificate combines the science and art of the modality. Through the application of theoretical concepts, anatomical understanding of body mechanics, as well as a deep acquaintance with the teachings of the Joseph Pilates method, students will learn teaching strategies to advance their own individual practice, and most importantly that of their future clients. Courses will consist of lectures, discussions, practice teaching and mentorship as students begin the process of teaching Pilates.

A minimum GPA of 3.0 in all coursework is required to successfully complete the certificate. Students may not count any coursework that is taken as audit or pass/fail.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>DANCE 371</td>
<td>Applied Anatomy</td>
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</tr>
<tr>
<td>DANCE 623</td>
<td>Body Conditioning: Pilates Method II 1</td>
<td>2-3</td>
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<td>Pilates Method Observation and Practice 2</td>
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</tr>
<tr>
<td>DANCE 685</td>
<td>Seminar in Pilates Student Teaching</td>
<td>2</td>
</tr>
<tr>
<td>KIN 230</td>
<td>Health Aspects of Exercise and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>or KIN 200</td>
<td>Introduction to Kinesiology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

1 Must be taken twice for a maximum of 4 credits.
2 Must be taken twice for a maximum of 2 credits.
Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday
(closed on university holidays)
Contact: (414) 229-4763

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Somatics, Minor

Our Minor in Somatics provides an opportunity to practice and survey a wide range of somatic methodologies, including Alexander Technique, Feldenkrais, Laban Movement Analysis, Martial Arts, Pilates Method and Iyengar Yoga. Upon completion, students are prepared for further study in an array of dance/movement disciplines, including teaching and health/wellness.

Thomas Hanna first used the term ‘somatics’ in the 1970’s in the first issue of the journal Somatics. He used “soma” to refer to the wide range of body awareness and mind-body practices which had emerged in many cultures throughout the twentieth century. The focus of somatics is on bodily experience, and on how our soma interacts with the world.

The Minor in Somatics provides coursework of special interest to Health Sciences, Nursing, and Education majors who aim to work in helping professions and facilitate movement awareness/change. Music, Acting, and Dance performance students in the Peck School of the Arts will also benefit from learning how to self-monitor physical performance, access the movement imagination, move expressively, and connect meaningfully with an audience.

Requirements

Admission Requirements for the Minor in Somatics

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the Minor in Somatics’ coursework, students must apply for and be accepted into the minor. Potential students must have a 2.75 GPA to be accepted into the minor.

Application consists of:

1. the online application (http://uwm.edu/arts/dance/minor-application/) and
2. submission of unofficial UWM transcript via email to somatic-minor@uwm.edu.

No more than 6-8 credits (2-3 courses) will be applied toward the minor until after a student has been admitted and a Dance Faculty Advisor has been assigned.

Continuation Requirements

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department’s academic requirements for the Somatics Minor.

For all dance majors and minors, dance courses with a grade C- or below will not be counted toward any departmental degree.

Students must maintain a 2.75 GPA overall to remain in the Minor in Somatics.

Minor in Somatics Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 220</td>
<td>Body Sense</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy (or Departmental Approved Equivalent)</td>
<td></td>
</tr>
<tr>
<td>DANCE 624</td>
<td>Feldenkrais for Performers</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives in Dance

Select 9 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy (or Departmental Approved Equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 489</td>
<td>Workshop in Dance: (Approved Somatic Sub-Topic(s) only)</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Alexander Technique Practicum</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 623</td>
<td>Body Conditioning: Pilates Method II</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 22

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday
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Contact: (414) 229-4763

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Film

Film, Video, Animation, and New Genres

With dual focus on both the theoretical and practical worlds of filmmaking, the Department of Film, Video, Animation, and New Genres provides programs for students with the flexibility to explore all aspects of the industry. Our faculty are professionals and filmmakers who actively screen at festivals and exhibition spaces from the Sundance Film Festival to the Centre Georges Pompidou in Paris.

Programs

- Animation, BA (p. 148)
- Cinematic Arts, MFA (p. 151)
- Film, BFA (p. 152)
- Film, Video, Animation and New Genres, Minor (p. 155)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Blau</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
<tr>
<td>Carl Bogner</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td></td>
</tr>
<tr>
<td>Portia Cobb</td>
<td>Associate Professor</td>
<td>MA</td>
<td>San Francisco State University</td>
</tr>
<tr>
<td>Cecelia Condit</td>
<td>Professor</td>
<td>MFA</td>
<td>Tyler School of Art, Temple University</td>
</tr>
<tr>
<td>Rob Danielson</td>
<td>Associate Professor</td>
<td>MFA</td>
<td></td>
</tr>
<tr>
<td>Lori Felker</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>School of the Art Institute of Chicago</td>
</tr>
<tr>
<td>Steven Foster</td>
<td>Professor</td>
<td>MFA</td>
<td></td>
</tr>
<tr>
<td>Kelly Kirshnter</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of California, Irvine</td>
</tr>
<tr>
<td>Diane Kitchen</td>
<td>Professor</td>
<td>MFA</td>
<td></td>
</tr>
<tr>
<td>Jesse McLean</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>University of California, Irvine</td>
</tr>
<tr>
<td>Stephen Wetzel</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
<tr>
<td>Iverson White</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of California, Los Angeles</td>
</tr>
<tr>
<td>Rob Yeo</td>
<td>Associate Professor, Chair</td>
<td>MFA</td>
<td>School of the Art Institute of Chicago</td>
</tr>
</tbody>
</table>

Animation, BA

The BA in Animation will prepare graduates to secure positions as animators and multimedia artists in the moving image production industry.

Graduates of this program will be able to:

1. Apply knowledge of artistic principles, conventions, methods, and practices through the creation and production of animated works of art;
2. Utilize the core concepts, capabilities, and tools of animation technology;
3. Apply critical and creative thinking skills in a variety of contexts;
4. Identify ways in which animation can be utilized in both creative and practical contexts;
5. Assure high quality production values in the work that they create; and
6. Demonstrate the ability to communicate effectively, produce projects individually and collaboratively, engage fully in the entire production process, from concept to distribution.

The BA in Animation totals 120 credits, with 57 academic credits in the program - 45 required credits and 12 elective credits. This degree is administered through the Department of Film, Video, Animation and New Genres in the Peck School of the Arts. Applicants entering the program with an AAS degree from the Animation Department in the School of Media and Creative Arts at Milwaukee Area Technical College (MATC) may be granted admission at the third-year level.

Students in the department of Film, Video, Animation, and New Genres are required to have a laptop computer and video editing software.

Requirements

The BA in Animation is a 120-credit degree that includes 45 credits of university requirements, 18 credits of general electives and 57 credits in Animation and Filmmaking.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Animation Requirements</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Competencies</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication – Part A and Part B</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Natural Sciences (Must include one lab) 6
Social Sciences 6
Cultural Diversity 2

**Electives**

Additional Electives 12
Credits in Peck School of the Arts 3 12
University Credits 3
Total Credits 45

1. Learn more about the General Education Requirements (p. ).
2. Credits may be utilized in required curriculum areas.
3. 12 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

**BA Animation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Animation Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete six credits of:</td>
<td></td>
</tr>
<tr>
<td>FILM 110</td>
<td>Foundation Topics: (students are required to complete 2 sections for 6 credits of FILM 110)</td>
<td>6</td>
</tr>
<tr>
<td>FILM 180</td>
<td>Foundation Production: Fiction</td>
<td>6</td>
</tr>
<tr>
<td>FILM 181</td>
<td>Foundation Production: Nonfiction</td>
<td>6</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 232</td>
<td>Animation I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 341</td>
<td>Theory/Practice Seminar: (The Business of Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Stop-Motion Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 460</td>
<td>Advanced Media Arts Module:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 509</td>
<td>Senior Project I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 510</td>
<td>Senior Project II</td>
<td>6</td>
</tr>
<tr>
<td><strong>Foundation Review</strong></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Animation Electives**

Choose 9 credits from the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 341</td>
<td>Theory/Practice Seminar: (The Animated Short)</td>
<td></td>
</tr>
<tr>
<td>FILM 341</td>
<td>Theory/Practice Seminar: (Cartoons, Animation &amp; Graphic Novel)</td>
<td></td>
</tr>
<tr>
<td>FILM 341</td>
<td>Theory/Practice Seminar: (Miyazaki Shorts and Features)</td>
<td></td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Character Design &amp; Animation)</td>
<td></td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Interactive Animation)</td>
<td></td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Puppetry)</td>
<td></td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Quick Sketch for Animation)</td>
<td></td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (The Animation Production Process)</td>
<td></td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Visual Effects)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Advanced Visual Effects)</td>
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</tbody>
</table>

**Additional Elective**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 150</td>
<td>Multicultural America 2</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Electives**

May be taken from any university discipline, including Animation and Filmmaking.

Total Credits 75

1. Foundation Review takes place at the end of each semester. Once students complete all the required coursework, they are allowed to present their work to the faculty.
2. Satisfies UWM’s Cultural Diversity requirement.

**Applicants Entering the Program with an AAS degree in Animation from Milwaukee Area Technical College (MATC)**

Applicants entering the program with an AAS degree in Animation from MATC will be granted admission at the third-year level.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>University Core</strong></td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Animation/Filmmaking Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 180</td>
<td>Foundation Production: Fiction</td>
<td>6</td>
</tr>
<tr>
<td>or FILM 181</td>
<td>Foundation Production: Nonfiction</td>
<td>6</td>
</tr>
<tr>
<td>FILM 303</td>
<td>Current Topics in Media Arts Production:</td>
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</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (The Business of Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Stop-Motion Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 460</td>
<td>Advanced Media Arts Module: (Retake to complete 6 credits)</td>
<td>6</td>
</tr>
<tr>
<td>FILM 509</td>
<td>Senior Project I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 510</td>
<td>Senior Project II</td>
<td>6</td>
</tr>
<tr>
<td><strong>Choose one:</strong></td>
<td></td>
<td>3</td>
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<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 380</td>
<td>Media Arts Module:</td>
<td></td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module:</td>
<td></td>
</tr>
<tr>
<td>FILM 460</td>
<td>Advanced Media Arts Module:</td>
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</tr>
</tbody>
</table>

**General Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 60

**BA Animation Recommended Film Sequence**

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FILM 110</td>
<td>Foundation Topics:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FILM 180</td>
<td>Foundation Production: Fiction</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td>FILM 110</td>
<td>Foundation Topics:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FILM 181</td>
<td>Foundation Production: Nonfiction</td>
<td>6</td>
</tr>
</tbody>
</table>
Applicants Entering the Program with an AAS degree in Animation from Milwaukee Technical College (MATC)

Year 3
Fall
FILM 180 Foundation Production: Fiction
or FILM 181 or Foundation Production: Nonfiction 6

Spring
FILM 341 Theory/Practice Seminar: (The Business of Animation) 3
FILM 510 Senior Project II 6
General Elective 3
University Core 3
Credits 15

Total Credits 120

Advising
Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

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Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.
Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Film Department Animation Program Advisor,
Brooke Thiele
swelstad@uwm.edu

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**Cinematic Arts, MFA**

The Milton and Lillian Peck School of the Arts offers the Master of Fine Arts in Cinematic Arts, an interdisciplinary degree program encompassing graduate studies in film and dance. The curricula in this program include intensive professional training in an individual performance area plus significant interdisciplinary experience in related performance and scholarly fields. All curricula are dedicated to maintaining the most rigorous professional and artistic standards in their disciplines.

The programs currently offered are: film and video production in the Department of Film, Video, Animation, and New Genres; and choreography and performance in the Department of Dance.

The curricula offered in the program are designed for serious and talented students who are preparing for careers as professionals in the performing arts or as artist-teachers in advanced training programs. Admission to the programs is highly selective, and all curricula include extensive practical performance experience.

The Helene Zelazo Center for the Performing Arts is the premier performance home for the Peck School of the Arts. It includes the 759-seat Helen Bader Concert Hall, a 3,200 square foot rehearsal room, numerous small ensemble practice rooms, and the Mary L. Nohl Art Galleries.

The School's other facilities include the Fine Arts Center which houses two theatres, a recital hall, and related shop, studio, instructional and practice space, and nearby Mitchell Hall with studio, viewing, and processing facilities for the Department of Film, Video, Animation and New Genres as well as the chamber dance theatre and additional rehearsal, studio, and performance spaces for the departments of Theatre and Dance.

**Master of Fine Arts in Cinematic Arts**

The Department of Film, Video, Animation and New Genres offers a graduate program in media arts practice. The curriculum is designed for serious and talented students who are preparing for careers as artists.

Facilities include a complete production studio, with all tools and services necessary for in-house film, digital video and sound work; photography and imaging labs; a digital studio for Internet projects, physical computing, interactivity and other forms of digital and media arts; and space for installation and performance projects. A special feature of the program is our excellent in-house processing facility for black-and-white reversal 16mm film.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Master of Fine Arts in Cinematic Arts**

In addition to a series of graduate seminars, students can choose from an array of elective options that include graduate production studios, conceptual studies courses, complementary studies from outside the department, professional practice opportunities in the field and U/G or G electives. Students are expected to originate and produce finished projects on a regular basis, culminating in a thesis presentation.

**Admission**

In order to be considered for admission to the program, an applicant must meet Graduate School requirements and submit original media-related work that demonstrates technical competence and creative promise.

An applicant whose grade point average or quality of work does not meet Graduate School and Department of Film, Video, Animation and New Genres program standards may be considered for admission on probation. Each student is expected to satisfy deficiency requirements within three enrolled semesters. The Graduate School and the Department of Film, Video, Animation and New Genres graduate program monitor the deficiencies. No course credits earned to make up deficiencies may be counted as program credits required for the degree.

**Transfer of Credits**

With the approval of the Department of Film, Video, Animation and New Genres graduate program and the Graduate School, an applicant from another institution may be permitted to transfer up to 19 credits toward the total of 48 graduate credits required for the MFA degree.

**Credits and Courses**

The minimum Film-MFA degree requirement is 48 graduate credits, (18 cr required, 30 cr elective). It is recommended that students earn 12 credits each semester through full-time attendance on campus.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 710</td>
<td>Graduate Film Studio/Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 712</td>
<td>Graduate Film Studio/Seminar II</td>
<td>3</td>
</tr>
</tbody>
</table>
FILM 714 Graduate Film Studio/Seminar III 3
FILM 730 Advanced Research in Film I 3
FILM 732 Advanced Research in Film II 6

Electives
- Select 30 credits with assistance and approval from the Director of Graduate Studies and their Graduate Advisor: 30
- FILM 720 Graduate Media Arts Workshop I 1
- FILM 722 Graduate Media Arts Workshop II 1
- FILM 900 Graduate Studio (maximum of 12 credits)

Department of Film, Video, Animation and New Genres Electives (maximum of 30 credits) 2
- Conceptual Studies Electives (maximum of 12 credits) 3
- Complementary Studies (maximum of 9 credits) 4
- FILM 700 Professional Practice: Production (maximum of 9 credits)

Total Credits 48

1 A maximum of 9 credits between FILM 720 and FILM 722.
2 These are U/G and G classes in film, video & new genres that are regularly offered by the department, including topics such as 16mm film and video production, screenwriting, lighting, cinematography, audio production, animation, installation, performance and physical computing.
3 Our Conceptual Studies program combines the study of media history, theory, and criticism with the practice of media production. Conceptual Studies credits can be combined with Complementary Studies credits to a maximum of 21 credits.
4 These are UG/G courses offered outside the department that are relevant to a students proposed course of study. If courses inside the Department of Film, Video, Animation and New Genres are closely allied to an area of complementary study, such as Film courses in audio or photography and Music Department courses in electronic composition, they will count toward fulfillment of the Complementary Studies option. Students interested in Complementary Studies are encouraged to discuss their options with the Director of Graduate Studies and their major professor before enrolling in these courses.

Time Limit
The student must complete all degree requirements within seven years of the initial enrollment.

International Students
On completion of graduate studies, international students are eligible to apply for Optional Practical Training (OFT) for an additional year of practical work experience. If you are interested in OPT, please see an Immigration Coordinator at International Student and Scholar Services in the Center for International Education.

Film, BFA
The Department of Film, Video, Animation, and New Genres in the Peck School of the Arts offers an integrated program of study leading to a BFA in Film.

Requirements
The Bachelor of Fine Arts degree in Film requires 120 credits, and is distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>FVANG Requirements</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

University Core
The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication – Part A and Part B 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language 2</td>
<td></td>
<td></td>
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<tr>
<td>Distribution Requirements 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Additional Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credits in Peck School of the Arts 3</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>University Credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

1 Learn more about the General Education Requirements (p. ).
2 Credits may be utilized in required curriculum areas.
3 12 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Additional Requirements
Major Professor as Advisor
Each student chooses a major professor from the Department of Film, Video, Animation and New Genres graduate faculty to advise and supervise studies. In addition to the major professor, each student's committee must contain a minimum of two Department of Film, Video, Animation and New Genres graduate faculty members. Any student electing a minimum of nine credits in either Conceptual or Complementary Studies must include a faculty member from that discipline on the committee as well.

Thesis Presentation
Upon recommendation of the major professor and advisory faculty, the student presents a thesis exhibition program of work executed since admission to the program. The exhibition may be held either during the semester in which the student completes coursework for the degree or during the following semester.
Course of Study

The Film, Video, Animation, and New Genres degree program is an integrated course of study in which students create individual projects in film, video, or other media every semester. This is accomplished through an 18-credit Foundation requirement taken during the first year, followed by a series of required and elective courses in the 72-credit major.

Students in Film, Video, Animation, and New Genres are required to have a laptop computer and video editing software.

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM</td>
<td>110 Foundation Topics: (Students are required to complete 2 sections for 6 credits of FILM 110)</td>
<td>6</td>
</tr>
<tr>
<td>FILM</td>
<td>180 Foundation Production: Fiction</td>
<td>6</td>
</tr>
<tr>
<td>FILM</td>
<td>181 Foundation Production: Nonfiction</td>
<td>6</td>
</tr>
<tr>
<td>FILM</td>
<td>222 Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>220 16mm Filmmaking II</td>
<td></td>
</tr>
<tr>
<td>FILM</td>
<td>231 Concept Development for Film Practice</td>
<td></td>
</tr>
<tr>
<td>FILM</td>
<td>232 Animation I</td>
<td></td>
</tr>
<tr>
<td>FILM</td>
<td>255 Introduction to Digital Arts</td>
<td></td>
</tr>
</tbody>
</table>

Production Skills: FILM 380, FILM 420, and FILM 460 classes including: Cinematography; Editing, Field Recording & Digital Audio; Lighting; Visual Effects Studio; Director of Photography; Post-Production Sound; Collaborative Filmmaking; Film Score Studio; Stop Motion Animation; DIY Camera Movement; Interactive Animation; Digital Filmmaking Workshop; Art Direction for Film. A full list of eligible courses will be available each semester.

Portfolio Production: FILM 380, FILM 420 and FILM 460 classes including: Narrative Production; Experimental Narrative; Animation Studio; Zen & the Art of Filmmaking; Appropriated Media; Observational Documentary; Dreams: Yours, Mine, Ours; Experimental 16mm; Landscapes/Filmscapes. A full list of eligible courses will be available each semester.

Contextual Topics: Multiple classes, including FILM 316, FILM 318, FILM 319, FILM 341, and FILM 434. A full list of eligible courses will be available each semester.

Professional Practice/Internship: Includes FILM 250/FILM 450; FILM 341; FILM 420; Inside the Film Business; Milwaukee Underground Film Festival; The Animation Business. A full list of eligible courses will be available each semester.

Film, Video Animation, and New Genres Electives

Consult your academic advisor in the Peck School of the Arts Student Services Office for electives in the PSOA Core Curriculum and General Education Requirement courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM</td>
<td>150 Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>203 Media Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>220 16mm Filmmaking II</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>222 Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>232 Animation I</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>234 Introduction to the Screenplay</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>250 Internship/Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>251 Theory/Practice Workshop: (subtitle)</td>
<td>3-4</td>
</tr>
<tr>
<td>FILM</td>
<td>255 Introduction to Digital Arts</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>297 Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>FILM</td>
<td>299 Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>FILM</td>
<td>301 Conversations with Filmmakers and Critics (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>316 Filmmaker as Theorist/Practitioner (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>318 Film and the Visual and Performing Arts: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>319 Film Genres: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>320 Structures of Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>341 Theory/Practice Seminar: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>380 Media Arts Module: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>399 Advanced Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>FILM</td>
<td>420 Intermediate Media Arts Module: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>434 Film Aesthetics: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM</td>
<td>450 Advanced Internship/Professional Practice</td>
<td>1-6</td>
</tr>
<tr>
<td>FILM</td>
<td>455 Integrated Film/Video Exploration</td>
<td>6</td>
</tr>
</tbody>
</table>
The following outline will serve as a guide in planning for studies in Film, Video, Animation, and New Genres. Students are encouraged to consult regularly with their school and departmental advisors. All course waivers or changes in the requirements of the major should be directed to a department or school academic advisor and must have the written approval of the department chair.

### Year 1

#### Fall
- **FILM 110** Foundation Topics: History of Film I: Development of an Art (GER-H) 3
- **FILM 180** or **FILM 181** Foundation Production: Fiction 6

Select two of the following: 6
- **ENGLISH 102** College Writing and Research (OWC-A) 1
- **ARTHIST 205** History of Film I: Development of an Art (GER-H)
- **PSOA Core Course** 2
- **University Core (GER)** 3
- **University Core (GER) QL-A Requirement** 3

**Credits:** 15

#### Spring
- **FILM 110** Foundation Topics: History of Film I: Development of an Art (GER-H) 3
- **FILM 180** or **FILM 181** Foundation Production: Fiction 6

Select two of the following: 6
- **ENGLISH 102** College Writing and Research (OWC-A) 1
- **PSOA Core Course** 2
- **University Core (GER)** 3
- **University Core (GER) QL-A Requirement** 3

**Credits:** 15

### Year 2

#### Fall
- **FILM 222** Introduction to Digital Filmmaking 3

Select one of the following: 3
- **FILM 220** 16mm Filmmaking II
- **FILM 231** Concept Development for Film Practice
- **FILM 232** Animation I
- **FILM 255** Introduction to Digital Arts
- **FVANG Elective** 3

Select two of the following: 6
- **ARTHIST 205** History of Film I: Development of an Art (GER-H)
- **PSOA Core Course** 2
- **FVANG Elective** 2
- **University Core (GER) QL-A Requirement** 3
- **Foundation Review** 6

**Credits:** 15

#### Spring
- Production Skills Elective 6
- Portfolio Production Elective 3
- **University Core** 3

**Credits:** 15

### Year 3

#### Fall
- **FILM 303** Current Topics in Media Arts Production: 3
- Production Skills 3
- Portfolio Production 3
- **University Core** 3
- **Credits:** 15

#### Spring
- Production Skills 3
- Contextual Elective 3
- FVANG Elective 3
- **University Core** 3
- **Credits:** 15

### Year 4

#### Fall
- Production Skills 3
- Professional Practice/Internship 3
- **FILM 509** Senior Project I 3
- **University Core** 3
- **Credits:** 15

#### Spring
- **FILM 510** Senior Project II 6
- Contextual Elective 3
- **University Core** 3
- **General Elective** 2
- **Credits:** 15

**Total Credits:** 120

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1. **ENGLISH 233** recommended for students exempted from **ENGLISH 102.**
2. Professional Practice/Internship: Includes **FILM 250/FILM 450; FILM 341; FILM 420; Inside the Film Business; Milwaukee Underground Film Festival; The Animation Business.** A full list of eligible courses will be available each semester.
3. **University Core:** Includes Oral and Written Communication (parts A & B), Quantitative Literacy (parts A & B), General Education Requirements in Humanities, Natural Science, Social Science, and Cultural Diversity, plus the PSOA Core, for a total of 45 credits.
4. **PSOA Core:** Film students take 12 credits of PSOA classes outside of **FVANG,** including at least three different departments (Art & Design, Dance, Music, Theatre). It is highly recommended that Film majors include **THEATRE 110** as part of their PSOA Core.
5. **ENGLISH 215** highly recommended to fulfill OWC-B & GER-H.
6. Foundation Review is held at the end of each semester, when the Film Faculty reviews 2 self-authored media projects and a transcript from eligible students. Eligibility is attained through successful completion of **FILM 114, FILM 116, FILM 117, FILM 118, FILM 201, FILM 222, FILM 231,** plus one of **FILM 220, FILM 232,** or **FILM 255.**

### Advance to the Major

Students are admitted to the Film, Video, Animation, and New Genres major upon completion of:

- the UWM Oral and Written Communication (OWC) Part A requirement;
- the Quantitative Literacy (QL) Part A requirement;
- 18 credits of the department Foundation Curriculum: **FILM 110 (6 credits), FILM 180 (6 credits) and FILM 181 (6 credits);**
- passing Foundation Review.
Advising
Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday
(closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Film, Video, Animation and New Genres, Minor

Our undergraduate program of study is committed to helping students develop their creative, conceptual and technical abilities through media: film, video, audio, installation, and new genres. Our goal is for you to become a creative thinker, an informed viewer and an art maker — someone whose imaginative skills are matched by an ability to learn and use the technologies to say something important.

This program is open to all students seeking to complement their major studies by developing skills in moving image/audio production, creative concept development, and media project management skills—skills that are increasingly in demand across multiple fields.

Requirements
After completing the Foundation Requirements, students will complete the remaining six credits of 300-level courses from the elective lists below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 110</td>
<td>Foundation Topics: (students are required to complete 2 sections for 6 credits of FILM 110)</td>
<td>6</td>
</tr>
<tr>
<td>FILM 180 or FILM 181</td>
<td>Foundation Production: Fiction Foundation Production: Nonfiction</td>
<td>6</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
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</tr>
</tbody>
</table>

Department Electives
Department electives are separated into four categories:

- Production: these courses build expertise with tools and technologies while continuing to develop critical thinking and creative expression.
- Portfolio: these courses explore topics and/or themes, develop artistry and require students to develop their individual portfolios through the creation of self-authored works.
- Contextual: these courses continue to develop student’s critical thinking and expressive voice by exploring topics and/or themes through screenings, discussions, written assignments and creative media projects.
- Professional Practice: includes internship and other forms of professional practicum.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Digital Filmmaking Workshop)</td>
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<td>FILM 380</td>
<td>Media Arts Module: (DIY Camera Movements)</td>
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<td>FILM 380</td>
<td>Media Arts Module: (Screenwriting II)</td>
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<td>FILM 380</td>
<td>Media Arts Module: (Documentary Project)</td>
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<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Stop Motion Animation)</td>
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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
### Code
### Title
### Credits

<table>
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<td>Media Arts Module: (Character Design and Animation)</td>
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<td>Media Arts Module: (Film Score Studio)</td>
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<td>Media Arts Module: (Design for Film: The Art Director)</td>
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<td>Media Arts Module: (Experimental Sound Techniques for Recording)</td>
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<td>Media Arts Module: (Pre-Production)</td>
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<td>Media Arts Module: (Puppetry)</td>
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<td>Media Arts Module: (Milwaukee Underground Film Festival)</td>
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<td>FILM 380</td>
<td>Media Arts Module: (The Screenwriting Business)</td>
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<td>Media Arts Module: (Inside the Business of Film)</td>
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<td>Media Arts Module: (The Producer's Role)</td>
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<td>Media Arts Module: (Documentary Project)</td>
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<tr>
<td>FILM 450</td>
<td>Advanced Internship/Professional Practice</td>
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### Advising

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
(closed on university holidays)  
**Contact:** (414) 229-4763  

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.  

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.  

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

### Music

The Department of Music offers undergraduate and graduate programs of study, as well as courses of study in Music Performance (Woodwinds, Brass, Percussion, Strings, Piano, Voice, and Guitar), Music Education, Music History and Literature, and Music Composition and Technology.  

We offer a graduate program of study in music, preparing the student for a career in a performing area, music education, music history and literature, conducting, or theory and composition. The Master of Music program permits concentration in performance (voice or instrument), chamber music performance, conducting, music education, music history and literature, theory and composition, collaborative piano (vocal or instrumental), and string pedagogy.  

Our Bachelor of Fine Arts (BFA) program is designed for students seeking intensive study to develop those skills needed for a professional career and/or preparation for graduate school. The Bachelor of Arts (BA) degree is designed for students looking for a broad-based understanding of multiple aspects of music in addition to areas outside of the music field. The Minor in Music is designed to provide students with basic knowledge and broad choices in coursework.
Our programs prepare students for careers in the performing arts, music education, music history and literature, conducting, and theory and composition. A conservatory-style department nestled within a leading research university, our professional artist-faculty inspire and frequently collaborate with students on campus and within Wisconsin’s cultural capital.

Our faculty and programs maintain strong partnerships with performance organizations in Milwaukee and the surrounding region providing a vibrant urban location that puts students in the cultural mainstream of a thriving and sophisticated metropolis of over one million people.

The department is an accredited member of the National Association of Schools of Music (NASM) and provides professional training and personal enrichment as the main focus of the Music curriculum. Visit us at: uwm.edu/arts/music/.

Programs

- Advanced Study in Chamber Music, Graduate Certificate (p. 159)
- Music Education, BFA: EC-A General Music (p. 163)
- Music Education, BFA: EC-A Instrumental and General Music (p. 166)
- Music, BA (p. 168)
- Music, BFA: Collaborative Piano (p. 172)
- Music, BFA: Guitar (p. 176)
- Music, BFA: Music Composition and Technology (p. 180)
- Music, BFA: Music History and Literature (p. 184)
- Music, BFA: Piano (p. 188)
- Music, BFA: Strings (p. 192)
- Music, BFA: Versatile Voice (p. 196)
- Music, BFA: Voice (p. 199)
- Music, BFA: Winds, Brass, and Percussion (p. 202)
- Music, Minor (p. 206)
- Music, MM/Library and Information Science, MLIS (p. 207)
- Music, MM: Chamber Music Performance (p. 209)
- Music, MM: Collaborative Piano: Vocal (p. 212)
- Music, MM: Conducting: Choral Emphasis (p. 213)
- Music, MM: Conducting: Instrumental (p. 215)
- Music, MM: Music Education (p. 216)
- Music, MM: Music History and Literature (p. 218)
- Music, MM: Performance: Guitar (p. 219)
- Music, MM: Performance: Keyboard (p. 221)
- Music, MM: Performance: Percussion (p. 223)
- Music, MM: Performance: String Emphasis (p. 224)
- Music, MM: Performance: Vocal Emphasis (p. 226)
- Music, MM: Performance: Woodwinds/Brass (p. 227)
- Music, MM: String Pedagogy (p. 229)
- Music, MM: Theory and Composition (p. 231)

Peck School of the Arts: Music Scholarships

If you wish to be considered for a Music scholarship, you are encouraged to audition no later than March of the school year preceding your intended matriculation. Lists of suggested repertoire, which can serve as a helpful guideline for your audition, can be obtained from the Peck School of the Arts Department of Music website at: uwm.edu/arts/scholarships/ or contact the Music Department at (414) 229-5217.

Midwest Residence Savings

UW-Milwaukee Peck School of the Arts participates in the Midwest Student Exchange Program (http://uwm.edu/undergrad-admission/student-type/out-of-state/) (MSEP), which awards reduced tuition (http://uwm.edu/business-financial-services/bursar/tuition-rate-schedules/) rates to Undergraduate and Graduate residents of Illinois, Indiana, Kansas, Michigan, Missouri, Nebraska, and North Dakota.

Illinois residents save even more with an automatic $1,000 Milwaukee Advantage Award (http://uwm.edu/undergrad-admission/student-type/out-of-state/).

Minnesota residents are eligible for the Minnesota Reciprocity program and are encouraged to apply (http://www.ohe.state.mn.us/mPg.cfm?pageID=120) as early as possible.

Music for the Non-Major

While professional training is the main thrust of the UWM Music curricula, the department offers many personal enrichment courses for the non-music major. UWM students have the opportunity to participate in a wide range of Performing Organizations such as:

- University Advanced Women’s Choir
- Concert Chorale
- Women’s Chorus
- University Men’s Chorus
- Collegium Musicum
- Gospel Choir
- University Band
- Symphony Band
- Wind Ensemble
- Jazz Band
- Symphony Orchestra
- University Community Orchestra

The following Academic Music Courses are also offered:

- Introduction to Classical Music
- The Concert Experience
- Introduction to World Musics
- American Popular Music
- Fundamentals of Music (Theory)
- Class Voice
- Beginning and Intermediate Guitar
- Beginning and Intermediate Piano

Private music lessons are also offered to the non-music major under the following conditions:

1. A successful audition placement into a recognized Music major ensemble.
2. Successful audition placement will allow concurrent registration into an appropriate private performance lesson.
3. Consent of instructor and availability of instructional time.  
4. For further information contact the Department of Music at (414) 229-5217.

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Elena Abend</td>
<td>Senior Lecturer</td>
<td>MM</td>
<td>The Juilliard School</td>
<td></td>
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<tr>
<td>Beverly Belfer</td>
<td>Senior Lecturer</td>
<td>MM</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
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<tr>
<td>Barry Benjamin</td>
<td>Professor</td>
<td>BM</td>
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<tr>
<td>Efim Boico</td>
<td>Professor</td>
<td>Diploma</td>
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<tr>
<td>Jane Bowers</td>
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<td>PhD</td>
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<tr>
<td>Mitchell Brauner</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>James Burmeister</td>
<td>Senior Lecturer, Interim</td>
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<td>University of Michigan</td>
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<tr>
<td>John Climer</td>
<td>Professor</td>
<td>DMA</td>
<td>University of Missouri - Kansas City</td>
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<tr>
<td>Jennifer Clippert</td>
<td>Associate Professor</td>
<td>DMA</td>
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<tr>
<td>Wayne Cook</td>
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<td>MS</td>
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<tr>
<td>Scott Corely</td>
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<tr>
<td>Margery Deutsch</td>
<td>Professor</td>
<td>MM</td>
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<tr>
<td>Zachary Durlam</td>
<td>Assistant Professor</td>
<td>DMA</td>
<td>Michigan State University</td>
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<tr>
<td>William H. Duvall Jr</td>
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<td>MMA</td>
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<tr>
<td>Thomas Dvorak</td>
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<tr>
<td>Scott Emmons</td>
<td>Professor, Dean</td>
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<td>Eastman School of Music</td>
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<tr>
<td>Valerie Errante</td>
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<td>Ralph Evans</td>
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<tr>
<td>Sheila Feay-Shaw</td>
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<td>Gregory Flint</td>
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<td>Robert Goodberg</td>
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<tr>
<td>Curt Hanrahan</td>
<td>Senior Lecturer</td>
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<td>University of Wisconsin - Madison</td>
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<tr>
<td>Gloria Hansen</td>
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<td>Sharon A. Hansen</td>
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<td>Kevin Hartman</td>
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<td>William Heinriches</td>
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<tr>
<td>Jerry Horner</td>
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<td>Rene Izquierdo</td>
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<td>Yale University</td>
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<td>Judit Jaimes</td>
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<tr>
<td>Stefan Kartman</td>
<td>Professor</td>
<td>MM</td>
<td>Juilliard School of Music</td>
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<tr>
<td>Jun Kim</td>
<td>Associate Professor</td>
<td>DMA</td>
<td>University of Cincinnati</td>
<td></td>
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<tr>
<td>Tanya Kruse-Ruck</td>
<td>Associate Professor</td>
<td>MM</td>
<td>University of Cincinnati</td>
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<tr>
<td>Abram Loft</td>
<td>Distinguished Professor</td>
<td>PhD</td>
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<tr>
<td>Franklin S. Miller</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Daniel Nelson</td>
<td>Professor</td>
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<tr>
<td>Stephen Nelson-Raney</td>
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<tr>
<td>Tim Noonan</td>
<td>Senior Lecturer</td>
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<td>University of Wisconsin - Madison</td>
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<tr>
<td>Mary Pautz</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Jeffry Peterson</td>
<td>Professor</td>
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<td>University of Illinois - Urbana</td>
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<tr>
<td>Gillian Rodger</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
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<tr>
<td>William R. Schmid</td>
<td>Professor</td>
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<tr>
<td>John Stropes</td>
<td>Faculty Associate</td>
<td>BS</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
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<tr>
<td>Gergoria Karides Suchy</td>
<td>Professor Associate</td>
<td>MM</td>
<td></td>
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</table>
Advanced Study in Chamber Music, Graduate Certificate

This certificate is designed for the instrumentalist who is admitted by audition to the Institute of Chamber Music at UW-Milwaukee. The major focus of the Institute of Chamber Music is to provide professional training experiences in the performance of chamber repertoire through well-matched chamber ensembles from duos through large chamber ensembles.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Eligibility and Admission
Students in the Institute of Chamber Music are admitted for a two-year program of study. Students are either part of an existing chamber group before entrance or, when admitted, assigned to a group. If the first-year group does not continue for a second year, the student must re-audition for membership in a new or reconstituted group that is acceptable to the faculty in order to continue for a second year of study.

At the end of the first year, each student’s performance is judged by the Director of the Institute in consultation with the members of the ICM advisory committee. If a student does not meet the required performance level, the student is prevented from continuing in the Institute for a second year. The student may, if acceptable to the Department graduate faculty, choose to follow another graduate program in the Department.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Minimum certificate requirement is 24 credits. Each student follows an integrated curriculum in which all subjects are related and no course is optional.

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<th>Code</th>
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<td>Select 1 cr each for 4 semesters:</td>
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<tr>
<td>MUSIC 806</td>
<td>Chamber Music Master Class (1 cr each for 4 semesters)</td>
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<td>Select 2 cr each for 4 semesters:</td>
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<tr>
<td>MUSIC 835</td>
<td>Chamber Music Coaching</td>
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<tr>
<td>MUSPERF 855</td>
<td>Instrumental Master Class</td>
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<td>Select 2 cr each for 4 semesters:</td>
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<tr>
<td>MUSPERF 8XX</td>
<td>Performance (Instrument Lessons)</td>
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<td>Total Credits</td>
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1 Met at end of program.

Thesis Recital
The recital should be given no sooner than the final semester of coursework. The student ensemble must present a program which has been approved by the Graduate Committee and by the Director of the Institute of Chamber Music.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.
Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Music Education, BFA: EC-A General and Choral Music

The BFA in Music Education in General and Choral Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

Requirements

The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of his or her Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUSED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and

Music Education BFA University Core

<table>
<thead>
<tr>
<th>Code</th>
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<td>General Education Requirements</td>
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<td>Competencies</td>
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<td>Oral and Written Communication – Part A and Part B</td>
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<td>Quantitative Literacy (QL) – Part A and Part B</td>
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Distribution Requirements

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<td>Natural Sciences (Must include one lab)</td>
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<td>Social Sciences</td>
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<tr>
<td>Cultural Diversity</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

School of Education Requirements

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives Outside Peck School of the Arts</td>
<td>6</td>
</tr>
<tr>
<td>Electives in Peck School of the Arts</td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td>45</td>
</tr>
</tbody>
</table>

1 See General Education Requirements (p. 200) for more information.
2 Credits may be utilized in required curriculum areas.
3 OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
4 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.

Music Education BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory Fundamentals</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Piano Proficiency or MusPerf 1</td>
<td></td>
</tr>
</tbody>
</table>

Music Theory

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
</tbody>
</table>

Music History

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 310</td>
<td>Introduction to World Musics (OWC-B)</td>
<td>3</td>
</tr>
</tbody>
</table>

Convocation

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td></td>
</tr>
</tbody>
</table>

School of Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td></td>
<td><strong>EXCEDUC 600</strong> Survey of Exceptional Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>EXCEDUC 605</strong> Child, Learner, Disabilities</td>
<td></td>
</tr>
<tr>
<td><strong>School of Education Student Teaching</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS ED 477</td>
<td>Student Teaching in Music - Elementary Level</td>
<td>5</td>
</tr>
<tr>
<td>MUS ED 478</td>
<td>Student Teaching in Music - Secondary Level</td>
<td>4</td>
</tr>
<tr>
<td>MUS ED 479</td>
<td>Seminar in Student Teaching</td>
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</tr>
<tr>
<td><strong>Music Education BFA Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td></td>
</tr>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication (SS)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (HU)</td>
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<tr>
<td>MUS ED 350</td>
<td>Introduction to Teaching Music</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 352</td>
<td>Technology in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 450</td>
<td>Field Experience in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 460</td>
<td>Teaching Elementary General Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 461</td>
<td>Teaching Secondary General Music</td>
<td>2</td>
</tr>
<tr>
<td><strong>Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Basic Skills Competency</strong></td>
<td>6</td>
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<tr>
<td><strong>Human Relations</strong></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td><strong>Content Competency</strong></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td><strong>Act 31</strong></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
<td></td>
</tr>
<tr>
<td>or AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td></td>
</tr>
<tr>
<td>AIS/HIST 263</td>
<td>North American Indian History Since 1887</td>
<td></td>
</tr>
<tr>
<td>edTPA</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 credits; 6 semesters. MUS 106 &amp; MUSIC 107.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Must be completed to apply for admission to MusEd.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Should be completed prior to Student Teaching.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Required to apply for Student Teaching.</td>
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</tr>
<tr>
<td></td>
<td>Required to apply for licensure. Also meets the following GER</td>
<td></td>
</tr>
<tr>
<td></td>
<td>requirements: cultural diversity and social science. Learn more about</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education Requirements here (p. 29).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Takes place during student teaching; passing score required for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>licensure.</td>
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</tr>
<tr>
<td><strong>EC-A General and Choral Music Certification</strong></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Most students will complete this degree by choosing one of the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>following principal instruments: Piano or Voice.</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td></td>
<td><strong>Principal Instrument: Piano</strong></td>
<td></td>
</tr>
<tr>
<td>7 semesters of MusPerf 201</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secondary Music Requirements:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSPERF 111</td>
<td>Lessons in Voice: (complete 4 semesters)</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 211</td>
<td>Lessons in Voice: (complete 2 semesters)</td>
<td></td>
</tr>
<tr>
<td><strong>Principal Instrument: Voice</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 semesters of MusPerf 211</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secondary Music Requirements:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MUS ED 331</strong> Keyboard Skills for Music Educators I</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MUS ED 332</strong> Keyboard Skills for Music Educators II</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MUSPERF 101</strong> Lessons in Piano: (complete 2 semesters)</td>
<td></td>
</tr>
<tr>
<td><strong>Senior Half Recital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 660</td>
<td>Senior Recital: (complete after 7 semesters)</td>
<td></td>
</tr>
<tr>
<td><strong>Performing Ensemble Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 7 semesters based on ensemble assignments, set at the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>beginning of each semester:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 44</td>
<td>Alta Voce Singers</td>
<td></td>
</tr>
<tr>
<td>MUSIC 50</td>
<td>Kameraden Chorus</td>
<td></td>
</tr>
<tr>
<td>MUSIC 52</td>
<td>Bella Voce</td>
<td></td>
</tr>
<tr>
<td>MUSIC 56</td>
<td>Concert Chorale</td>
<td></td>
</tr>
<tr>
<td><strong>Choral/Vocal Pedagogy and Techniques</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 245</td>
<td>Basic and Italian Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 246</td>
<td>German and French Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 357</td>
<td>Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 444</td>
<td>Vocal Pedagogy I</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 462</td>
<td>Teaching Secondary Choral Music</td>
<td>3</td>
</tr>
<tr>
<td><strong>Additional Music Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS ED 351</td>
<td>Folk Instrument Techniques for the Music Classroom</td>
<td>2</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students completing Principle Instrument: Piano should enroll in and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>complete 2 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students completing Principle Instrument: Voice should enroll in and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>complete 4 credits</td>
<td></td>
</tr>
<tr>
<td><strong>Degree Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Music curricula for the BFA require 125-130 credits, distributed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>as follows: music courses as specified in each curriculum: 75-80</td>
<td></td>
</tr>
<tr>
<td></td>
<td>credits; core curriculum: 45 credits; general electives: 0-9 credits.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The BA in Music requires 120 credits, distributed as follows: music</td>
<td></td>
</tr>
<tr>
<td></td>
<td>courses, 48 credits; core curriculum, 45 credits; general electives,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>27 credits.</td>
<td></td>
</tr>
<tr>
<td><strong>Performance Ensemble Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Music majors are required to participate in performing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>organizations during the course of their study. All Performance and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Music Education majors must be registered in an approved major</td>
<td></td>
</tr>
<tr>
<td></td>
<td>performing organization concurrent with each semester of private</td>
<td></td>
</tr>
<tr>
<td></td>
<td>study. The director of bands, the director of choral activities, and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the director of orchestras make ensemble</td>
<td></td>
</tr>
<tr>
<td></td>
<td>assignments at the beginning of each semester. Only one approved</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ensemble credit per semester can apply toward degree requirements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For the purpose of fulfilling the Performance Ensemble requirement,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the Department of Music recognizes the following approved major</td>
<td></td>
</tr>
<tr>
<td></td>
<td>performing Ensembles: University Advanced Women's Choir, Concert</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chorale, Women's Chorus, University Men's Chorus, University Band,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>University Community Orchestra. (Other performance ensembles may be</td>
<td></td>
</tr>
<tr>
<td></td>
<td>approved in certain degree programs; see individual degree programs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>below for specific requirements in each area.)</td>
<td></td>
</tr>
</tbody>
</table>
Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university;
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/ (http://uwm.edu/arts/advising/)

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for
honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music Education, BFA: EC-A General Music

The BFA in Music Education in General Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

Requirements
The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of his or her Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUSED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and

Music Education BFA University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements 1</td>
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</tr>
<tr>
<td></td>
<td>Competencies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication - Part A and Part B 2,3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B 2,3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distribution Requirements 1</td>
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</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
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</tbody>
</table>

Music Department Proficiencies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
</tbody>
</table>

Music History

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Introduction to World Musics (OWC-B)</td>
<td>3</td>
</tr>
</tbody>
</table>

Convocation 5

School of Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>CURREN</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
</tbody>
</table>

School of Education Student Teaching

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC</td>
<td>The Exceptional Individual</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC</td>
<td>Survey of Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
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</table>

Cultural Diversity 2

School of Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>Electives Outside Peck School of the Arts</td>
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</tr>
<tr>
<td>Electives in Peck School of the Arts 4</td>
<td>12</td>
<td></td>
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<tr>
<td>Total Credits</td>
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</tbody>
</table>

1. See General Education Requirements (p. ) for more information.
2. Credits may be utilized in required curriculum areas.
3. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
4. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.

Music Education BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.
EC-A General Music Requirements

Students may choose from a variety of instruments for this program. See your advisor if your principal instrument is not listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS ED 477</td>
<td>Student Teaching in Music - Elementary Level</td>
<td>5</td>
</tr>
<tr>
<td>MUS ED 478</td>
<td>Student Teaching in Music - Secondary Level</td>
<td>4</td>
</tr>
<tr>
<td>MUS ED 479</td>
<td>Seminar in Student Teaching</td>
<td>1</td>
</tr>
</tbody>
</table>

Music Education BFA Core

Choose one:

| COMMUN 101 | Introduction to Interpersonal Communication (HU)     |          |
| COMMUN 103 | Public Speaking (HU)                                  |          |
| MUS ED 350 | Introduction to Teaching Music                        |          |
| MUS ED 352 | Technology in Music Education                         |          |
| MUS ED 450 | Field Experience in Music Education                   |          |
| MUS ED 460 | Teaching Elementary General Music                     |          |
| MUS ED 461 | Teaching Secondary General Music                      |          |

Requirements

Basic Skills Competency

Human Relations

Content Competency

Act 31

ANTHRO 213 | American Indian Peoples of Wisconsin                |          |
or AIS 203 | Western Great Lakes American Indian                  |          |
Community Life of the Past |          |
AIS/HIST 263 | North American Indian History Since 1887          |          |

edTPA

Performing Ensemble Requirements

Complete 7 semesters based on ensemble assignments, set at the beginning of each semester:

| MUSIC 44 | Alta Voce Singers                                  |          |
| MUSIC 50 | Kameraden Chorus                                   |          |
| MUSIC 52 | Bella Voce                                        |          |
| MUSIC 56 | Concert Chorale                                    |          |

Additional Music Requirements

| MUS ED 351 | Folk Instrument Techniques for the Music Classroom |          |
| MUS ED 458 | Musicals and Choirs for Young Voices               |          |
| MUSIC 353  | Conducting                                         |          |
| MUSIC 444  | Vocal Pedagogy I                                   |          |

Electives

Students completing Principle Instrument: Guitar should enroll in and complete 4 credits

Students completing Principle Instrument: Piano should enroll in and complete 5 credits

Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Advising
Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/. (http://uwm.edu/arts/advising/)

Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Music Education BFA: EC-A Instrumental and General Music

The BFA in Music Education in Instrumental and General Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

Requirements

The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Program upon successful completion of MUS ED 350, which should be completed in the spring semester of his or her Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUSED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and

Music Education BFA University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS ED 101</td>
<td>Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 121</td>
<td>American Pop Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 310</td>
<td>Introduction to World Musics (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 545</td>
<td>Reading in the Content Areas: Middle,</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Junior, and Senior High School</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities, the Arts, Foreign Language</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
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</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
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</tr>
<tr>
<td>MUS ED 477</td>
<td>Student Teaching in Music - Elementary</td>
<td>5</td>
</tr>
<tr>
<td>MUS ED 478</td>
<td>Student Teaching in Music - Secondary</td>
<td>4</td>
</tr>
<tr>
<td>MUS ED 479</td>
<td>Seminar in Student Teaching</td>
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Electives in Peck School of the Arts

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUS 102</td>
<td>Theory Fundamentals</td>
<td>3</td>
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<tr>
<td>MUS 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUS 310</td>
<td>Introduction to World Musics (OWC-B)</td>
<td>3</td>
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</table>

Music Education BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS ED 350</td>
<td>Piano Proficiency or MusPerf I</td>
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<tr>
<td>MUS ED 477</td>
<td>Student Teaching in Music - Elementary</td>
<td>5</td>
</tr>
<tr>
<td>MUS ED 478</td>
<td>Student Teaching in Music - Secondary</td>
<td>4</td>
</tr>
<tr>
<td>MUS ED 479</td>
<td>Seminar in Student Teaching</td>
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Music Education BFA Core
Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication (SS)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (HU)</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 350</td>
<td>Introduction to Teaching Music</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 352</td>
<td>Technology in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 450</td>
<td>Field Experience in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 460</td>
<td>Teaching Elementary General Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 461</td>
<td>Teaching Secondary General Music</td>
<td>2</td>
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</table>

Requirements
Basic Skills Competency
Human Relations
Content Competency
Act 31

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213 or AIS 203</td>
<td>American Indian Peoples of Wisconsin Western Great Lakes American Indian Community Life of the Past</td>
<td>2</td>
</tr>
<tr>
<td>AIS/HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>2</td>
</tr>
</tbody>
</table>

edTPA

0 credits; 6 semesters. MUSIC 106 & MUSIC 107.
Must be completed to apply for admission to MusEd.
Should be completed prior to Student Teaching.
Required to apply for Student Teaching.
Required to apply for licensure. Also meets the following GER requirements: cultural diversity and social science. Learn more about General Education Requirements here (p. 29).
Takes place during student teaching; passing score required for licensure.

EC-A Instrumental and General Music Requirements

Principal Instrument

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>7 semesters of MusPerf 2XX</td>
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Secondary Music Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUS ED 331</td>
<td>Keyboard Skills for Music Educators I</td>
<td>2</td>
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</table>

Senior Half Recital:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 660</td>
<td>Senior Recital: (complete after 7 semesters)</td>
<td>2</td>
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</table>

Performing Ensemble Requirements

Complete 7 semesters based on ensemble assignments, set at the beginning of each semester:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 40</td>
<td>Symphony Band</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
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</tbody>
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Music Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
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<tr>
<td>MUSIC 354</td>
<td>Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 451</td>
<td>Teaching Instrumental Music: Elementary and Middle Levels</td>
<td>2</td>
</tr>
<tr>
<td>MUS ED 463</td>
<td>Teaching Instrumental Music: Secondary</td>
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</table>

Pedagogy and Techniques

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSPERF 315</td>
<td>Brass Pedagogy and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUSPERF 316</td>
<td>String Pedagogy and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUSPERF 317</td>
<td>Woodwind Pedagogy and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUSPERF 318</td>
<td>Percussion Pedagogy and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUSPERF 319</td>
<td>Voice Technique for the Instrumentalist</td>
<td>1</td>
</tr>
</tbody>
</table>

Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:
• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

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Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

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Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BA
The BA is a general Music degree designed for Music students interested in combining a Music major with a second major or minor in a non-music degree program.

Requirements
University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication – Part A and Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td></td>
<td></td>
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<tr>
<td>Foreign Language</td>
<td></td>
<td></td>
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<tr>
<td>Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Honors Degree and Honors Degree with Thesis
2 Final Honors
3 For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.
Electives Outside Peck School of the Arts 12
Electives in Peck School of the Arts 4 12
Electives Outside Discipline 3
Total Credits 45

1 See General Education Requirements (p. 29) for more information.
2 Credits may be utilized in required curriculum areas.
3 OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
4 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Major Requirements
The minimum number of credits required to complete the Bachelor of Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lessons in Principal Instrument</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 semesters in a single Principal Instrument study at the 200 level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 2 semesters of Piano at the 100 level</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Performance Master Class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select the appropriate Performance Master Class when enrolled in Music Performance lessons at the 200 level (MUSPERF 5XX)</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>Performance Ensemble</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 8 semesters</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Music Theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Music History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>Music Convocation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music (one semester taken during freshman year)</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation (five semesters)</td>
<td>0</td>
</tr>
<tr>
<td>Required Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Music Theory or Music History Elective (see lists below)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 27 credits</td>
<td>27</td>
<td></td>
</tr>
</tbody>
</table>

Can be completed concurrently with 200 level lessons. Based on audition results, students enroll in MUSPERF 1 (Levels I & II) for up to two semesters to attain piano proficiency and/or MUSPERF 101 up to two semesters if you elect to take piano. MUSPERF 1 will not be counted toward degree requirement.

MUSIC 106 and MUSIC 107 credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits. See Recital and Music Convocation Requirements.

Music Theory Electives
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
<td>3</td>
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</tbody>
</table>

Music History Electives
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 317</td>
<td>Introduction to American Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 409</td>
<td>Folk Music in Contemporary Culture</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 410</td>
<td>Topics in World Music:</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 449</td>
<td>Women in Music:</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
<td>3</td>
</tr>
</tbody>
</table>

Bachelor of Arts in Music Curriculum
Recommended course order.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSPERF 1 or MUSPERF 101</td>
<td>Fundamentals of Piano: or Lessons in Piano:</td>
</tr>
<tr>
<td>MUSPERF 2XX</td>
<td>Principal Instrument</td>
</tr>
<tr>
<td>MUSPERF 5XX</td>
<td>Performance Master Class</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Performance Ensemble</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
</tr>
<tr>
<td>Electives or Core Curriculum</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following in music performance:</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
</tr>
<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano:</td>
</tr>
</tbody>
</table>
Music, BA

Music History or Music Theory Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music: (Variable Topic)</td>
<td>1-3</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
</tbody>
</table>

Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band,
Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students
Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
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Honors in the Peck School of the Arts
Dean’s Honor List
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Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Collaborative Piano

The BFA in Music: Collaborative Piano curriculum is one of few such undergraduate programs offered nationwide. It offers training for pianists anticipating careers in vocal accompanying, as well as coaching art song, opera, and musical theatre. Students receive weekly lessons in collaborative piano, as well as solo piano, and piano technique, and participate in rehearsals and performances for the UWM Opera Theatre, Milwaukee Opera Theatre, and UWM choirs.

Requirements

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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</tr>
<tr>
<td></td>
<td>Competencies</td>
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</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
<td>2,3</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td>2,3</td>
</tr>
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<td>Foreign Language</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Distribution Requirements</strong></td>
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</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
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</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
</tr>
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<td></td>
<td>Cultural Diversity</td>
<td>2</td>
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<tr>
<td></td>
<td><strong>Electives</strong></td>
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<td>Electives Outside Peck School of the Arts</td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>45</td>
</tr>
</tbody>
</table>

1. See General Education Requirements (p. 29) for more information.
2. Credits may be utilized in required curriculum areas.
3. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
4. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Music Department Competencies</strong></td>
<td></td>
</tr>
<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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</tr>
<tr>
<td></td>
<td><strong>Music Theory</strong></td>
<td>14</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
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</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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<td>MUSIC 226</td>
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</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
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<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>9</td>
</tr>
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<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Convocation</strong></td>
<td>6</td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
<td></td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<td><strong>Principal Instrument</strong></td>
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<tr>
<td>MUSPERF 304</td>
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<td>2</td>
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<td>MUSPERF 501</td>
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<td><strong>Performing Organizations</strong></td>
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<td>Four semesters of one:</td>
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<tr>
<td></td>
<td>MUSIC 44 Alta Voce Singers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or MUSIC 50 Kameraden Chorus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or MUSIC 52 Bella Voce</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or MUSIC 56 Concert Chorale</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSIC 40 Symphony Band</td>
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<tr>
<td></td>
<td>MUSIC 42 Wind Ensemble</td>
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<tr>
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<td>MUSIC 182 Symphony Orchestra</td>
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<td></td>
<td>MUSIC 457 Opera Theatre</td>
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<td></td>
<td>or MUSIC 370 Chamber Ensemble - Mixed</td>
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<tr>
<td>MUSIC 220</td>
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<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td></td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td></td>
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<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
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<th>Code</th>
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<tbody>
<tr>
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<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
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### Plan of Study

#### Year 1

**Fall**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 44</td>
<td>Alta Voce Singers</td>
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<td>MUSIC 50</td>
<td>Kameraden Chorus</td>
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<tr>
<td>MUSIC 52</td>
<td>Bella Voce</td>
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<td>MUSIC 56</td>
<td>Concert Chorale</td>
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<tr>
<td>MUSIC 40</td>
<td>Symphony Band</td>
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<tr>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
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<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
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<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
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<td>MUSPERF 304</td>
<td>Lessons in Collaborative Piano-Vocal:</td>
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**Credits** | 16 |

**Spring**

<table>
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<td>MUSIC 50</td>
<td>Kameraden Chorus</td>
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<td>MUSIC 52</td>
<td>Bella Voce</td>
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<td>Concert Chorale</td>
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<td>Wind Ensemble</td>
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<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
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<td>MUSIC 107</td>
<td>Music Convocation</td>
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<td>MUSIC 106</td>
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<td>MUSIC 127</td>
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<tr>
<td>Electives or Core Curriculum</td>
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<tr>
<td>MUSPERF 304</td>
<td>Lessons in Collaborative Piano-Vocal:</td>
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**Credits** | 16 |

#### Year 2

**Fall**

Choose one:

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<tbody>
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<td>MUSIC 52</td>
<td>Bella Voce</td>
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<td>MUSIC 56</td>
<td>Concert Chorale</td>
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<td>MUSIC 40</td>
<td>Symphony Band</td>
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<td>MUSIC 42</td>
<td>Wind Ensemble</td>
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<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
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<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
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<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
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<tr>
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<td>2</td>
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<tr>
<td>MUSPERF 501</td>
<td>Master Class in Keyboard Instruments, Piano</td>
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**Core Curriculum and Electives** | 6 |

**Credits** | 16 |

**Spring**

Choose one:

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MUSIC 44</td>
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<td>MUSIC 50</td>
<td>Kameraden Chorus</td>
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<td>MUSIC 52</td>
<td>Bella Voce</td>
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<td>MUSIC 56</td>
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<td>Symphony Band</td>
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<td>MUSIC 42</td>
<td>Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td></td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
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<tr>
<td>MUSPERF 304</td>
<td>Lessons in Collaborative Piano-Vocal:</td>
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<td>MUSPERF 501</td>
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**Credits** | 16 |

#### Year 3

**Fall**

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<td>MUSIC 107</td>
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<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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**Music Theory Elective (choose one):**

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<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
<td>3</td>
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<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td></td>
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<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
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<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td></td>
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<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
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<tr>
<td>or MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
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<tr>
<td>MUSPERF 404</td>
<td>Lessons in Collaborative Piano-Vocal</td>
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<td>MUSPERF 501</td>
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**Credits** | 16 |

**Related Music Courses**

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<tr>
<td>MUSIC 245</td>
<td>Basic and Italian Lyric Diction</td>
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<tr>
<td>MUSIC 246</td>
<td>German and French Lyric Diction</td>
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</tr>
<tr>
<td>MUSIC 275</td>
<td>Keyboard Performance Repertoire</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 276</td>
<td>Keyboard Performance Repertoire</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
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</tr>
<tr>
<td>MUSIC 377</td>
<td>Song Literature I: Italy, Germany, France, Great Britain</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 378</td>
<td>Song Literature II: United States and Select European Countries</td>
<td>2</td>
</tr>
</tbody>
</table>

**Credits** | 16 |
### Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply/). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at an ensemble audition, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

### Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/ybm9r5fs) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

### Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

### Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

#### Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

#### Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department
organizations may be granted as follows:

Credits from an accredited college/university for performing Students Performance Ensemble Requirement for Transfer below for specific requirements in each area.) be approved in certain degree programs; see individual degree programs University Community Orchestra. (Other performance ensembles may Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and Chorale, Women's Chorus, University Men's Chorus, University Band, performing Ensembles: University Advanced Women's Choir, Concert the Department of Music recognizes the following approved major ensemble credit per semester can apply toward degree requirements. assignments at the beginning of each semester. Only one approved director of choral activities, and the director of orchestras make ensemble concurrent with each semester of private study. The director of bands, the during the course of their study. All Performance and Music Education majors must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements
All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement
All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students
Credits from an accredited college/university for performing organizations may be granted as follows:

• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music
Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Guitar

In the BFA: Guitar program students choose a primary style among classical, jazz, and finger-style guitar. Guitar majors take classes in guitar-related courses like repertoire, ensemble, pedagogy, and guitar history.

Requirements

University Core

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<tr>
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<td>Competencies</td>
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<td>Oral and Written Communication – Part A and Part B 2,3</td>
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<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B 2,3</td>
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<td>Foreign Language 2</td>
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<td>Humanities</td>
<td>6</td>
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<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
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<td>Cultural Diversity 2</td>
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| Electives Outside Peck School of the Arts | 12 |
| Electives in Peck School of the Arts 4 | 12 |
| Electives Outside Discipline            | 3  |
| Total Credits                           | 45 |

1 See General Education Requirements (p. 29) for more information.
2 Credits may be utilized in required curriculum areas.
3 OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
4 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Music Department Competencies</td>
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<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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<td>MUSPERF 1</td>
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### Guitar Requirements

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<td>or MUSPERF 347</td>
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<tr>
<td>or MUSPERF 348</td>
<td>Lessons in Guitar–Jazz:</td>
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<td>MUSPERF 446</td>
<td>Lessons in Guitar–Classical:</td>
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<tr>
<td>or MUSPERF 447</td>
<td>Lessons in Guitar–Finger-Style:</td>
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<td>or MUSPERF 448</td>
<td>Lessons in Guitar–Jazz:</td>
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<td>MUSPERF 546</td>
<td>Master Class in Guitar (complete 8 semesters)</td>
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### Classical and Finger-Style

- MUSPERF 346 Lessons in Guitar–Classical:
- MUSPERF 347 Lessons in Guitar–Finger-Style:
- MUSPERF 348 Lessons in Guitar–Jazz:

### Jazz Style

- MUSPERF 546 Master Class in Guitar

### Performance Ensembles

- Classical and Finger-Style
- Jazz Style

### Music Theory Electives

- Choose one of the following:
  - MUSIC 220 Introduction to Computers and Music
  - MUSIC 321 Counterpoint
  - MUSIC 323 Instrumental and Choral Orchestration
  - MUSIC 327 Analog and Digital Synthesis I
  - MUSIC 328 Digital Synthesis and Systems II
  - MUSIC 421 Materials of Theory IV
  - MUSIC 680 Special Studies in Music

### Music History Electives

- Choose one of the following:
  - MUSIC 308 Selected Topics in Music History and Literature:
  - MUSIC 309 American Folk and Popular Music
  - MUSIC 311 Music of the Baroque Era
  - MUSIC 312 Music of the Classic Era
  - MUSIC 313 Music of the Romantic Era
  - MUSIC 314 Music since 1900
  - MUSIC 611 Music of the Medieval Era
  - MUSIC 612 Music of the Renaissance and Early Modern Era

### Required Guitar Classes

- MUS ED 385 Guitar Pedagogy
- MUSIC 242 Fretboard Essentials
- MUSIC 248 Sight-Reading for Guitar I
- MUSIC 348 Sight-Reading for Guitar II
- MUSIC 349 Classical Guitar History and Literature
- MUSIC 353 Conducting
- MUSIC 478 Finger-Style Guitar History and Performance
- MUSIC 489 Workshop: (Guitar Technique)
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<td>MUSICPERF 347 Lessons in Guitar–Finger-Style:</td>
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<td>MUSIC 107</td>
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**Spring**

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**Year 3**

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<td>MUSIC 489 Workshop: (Guitar Techniques)</td>
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**Spring**

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<td>Choose one Guitar History elective:</td>
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<td>Credits</td>
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**Undergraduate Admission and Audition Procedures**

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply/). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSICPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.
Theory & Piano Placement Exams
All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/y39m9rfs/) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students
All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application
To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent
Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition
All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional
Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation
A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted
Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition
Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements
All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement
All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:
• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

**Music Theory and History Requirements**
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

**Laptop Requirement**
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/.

**Advising**
**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
*(closed on university holidays)*  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/. (http://uwm.edu/arts/advising/)

**Honors in the Major**
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Music Composition and Technology**
The Music, BFA: Music Composition and Technology program fosters development in instrumental, vocal, and electroacoustic composition, with an emphasis on contemporary and experimental techniques.

**Requirements**

**University Core**

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<td>Oral and Written Communication – Part A and Part B</td>
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<td>Social Sciences</td>
<td>6</td>
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</tbody>
</table>
Composition Portfolio
The Composition Portfolio should contain the applicant’s best three to five representative works. At least one copy of a written score is required. The score may be of any ensemble configuration, from large ensemble to piano solo. Computer-generated scores, or digital software compositions are accepted but not required. Evidence of audio recordings in an appropriate digital audio format, fixed media, web-based, or comparable format is expected. The compositions on the recordings may or may not be the same compositional scores submitted with your portfolio. Other possible formats for compositions are Standard MIDI File, an image file or movie of a composition’s performance, or sound track to a video work. This latter may be a collaborative work with video artist(s). Group compositions are not acceptable. There is no particular style requirement for applicants, nor is there a duration requirement for his/her representative works. However, they must be complete works.

Required Piano Proficiency
Depending upon audition results, students may be required to enroll in MUSPERF 1 for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Those who place at the 100 level must take a minimum of 4 semesters of piano. All students entering at the 200 level must take 2 semesters of piano. Piano proficiency at 200 level is satisfied by demonstrated ability to play works of moderate difficulty, such as Bach’s Two-part Inventions, Bartok’s Mikrokosmos Book IV, Schumann’s "Kinderszenen", or Easy to Intermediate Classics. Deficiencies are made up without credit.

A student who is deficient in any of the above may be admitted provisionally, but only after evaluation and approval by the Composition Area. Contact the Composition Area for further information.

Graduation Requirements
Completion of the BFA in Music Composition and Technology will require each student to compose a minimum of five compositions over the lifetime of their program. While a minimum of three works must be written for solo or small ensemble, and one work for solo electronic or combined electronic and acoustic instrument(s), one work may be for large ensemble (orchestra, chamber, wind symphony, or choir). Of the five works required, three works must be presented publicly, each a minimum of nine minutes in duration.

Music BFA Requirements
The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

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<thead>
<tr>
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</thead>
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<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>14</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td></td>
</tr>
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<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>9</td>
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<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
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</table>

Music Composition and Technology Requirements

Required Composition and Theory Background
All potential Composition majors must show evidence of compositional ability before acceptance to the program. Each applicant must submit a Composition Portfolio of previous compositional work to the Composition faculty. The portfolio acts as the equivalent of an audition. Prospective students seeking to enter this program must also be able to begin by enrolling in the MUSIC 123 and MUSIC 127 series, as determined by the Theory Placement Exam. Those students who do not meet this criterion may be advised to enter the program on a Provisional basis, but must take MUSIC 1, receive a final grade of "B" or better, and resubmit their Composition Portfolio before a final admission and placement decision is determined by the Music Composition Area.

Composition Portfolio
The Composition Portfolio should contain the applicant’s best three to five representative works. At least one copy of a written score is required. The score may be of any ensemble configuration, from large ensemble to piano solo. Computer-generated scores, or digital software compositions are accepted but not required. Evidence of audio recordings in an appropriate digital audio format, fixed media, web-based, or comparable format is expected. The compositions on the recordings may or may not be the same compositional scores submitted with your portfolio. Other possible formats for compositions are Standard MIDI File, an image file or movie of a composition’s performance, or sound track to a video work. This latter may be a collaborative work with video artist(s). Group compositions are not acceptable. There is no particular style requirement for applicants, nor is there a duration requirement for his/her representative works. However, they must be complete works.

Required Piano Proficiency
Depending upon audition results, students may be required to enroll in MUSPERF 1 for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Those who place at the 100 level must take a minimum of 4 semesters of piano. All students entering at the 200 level must take 2 semesters of piano. Piano proficiency at 200 level is satisfied by demonstrated ability to play works of moderate difficulty, such as Bach’s Two-part Inventions, Bartok’s Mikrokosmos Book IV, Schumann’s "Kinderszenen", or Easy to Intermediate Classics. Deficiencies are made up without credit.

A student who is deficient in any of the above may be admitted provisionally, but only after evaluation and approval by the Composition Area. Contact the Composition Area for further information.

Graduation Requirements
Completion of the BFA in Music Composition and Technology will require each student to compose a minimum of five compositions over the lifetime of their program. While a minimum of three works must be written for solo or small ensemble, and one work for solo electronic or combined electronic and acoustic instrument(s), one work may be for large ensemble (orchestra, chamber, wind symphony, or choir). Of the five works required, three works must be presented publicly, each a minimum of nine minutes in duration.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>MUSIC 106</td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>23</td>
</tr>
</tbody>
</table>
All new freshmen are required to take Theory & Piano Placement exams. Keyboard skills must successfully complete the exams in Music Theory and Piano. Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete the music theory and piano placement exam. Composition majors must submit three works are required. Additionally, printed programs representing the public presentation of the five required compositions, along with recordings (as available). Composition Faculty: a final composition portfolio, which consists of a composition or series of compositions selected from the student's original works. Senior Thesis requires the student to submit the following to the Music department: a final composition portfolio, which consists of a composition or series of compositions selected from the student's original works. Senior Recital: a public recital of the student's compositions lasting a minimum of one hour in duration. Registering for Senior Recital stipulates a public recital of the student's compositions lasting a minimum of one hour in duration. Registering for Senior Thesis requires the student to submit the following to the Composition Faculty: a final composition portfolio, which consists of a composition or series of compositions selected from the student's original works. 

Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply/). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head. Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9rfs/) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal
Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.
High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Music History and Literature

The BFA in Music History and Literature program focuses on the historical and critical study of music, and prepares the student for further study in musicology, ethnomusicology, music librarianship, or music criticism. Students enjoy access to an extensive music library, including printed & digital scores, CDs, LPs, books about music, and streaming audio. In addition, students experience training in librarianship skills through work with the Coordinated Program in Music Librarianship – a joint degree between the School of Information Studies and the Peck School of the Arts Department of Music.

Requirements

University Core

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<tr>
<th>Code</th>
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<tr>
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<td>University Core</td>
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<tr>
<td></td>
<td>General Education Requirements (^1)</td>
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</tr>
<tr>
<td></td>
<td>Competencies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B (^2,3)</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B (^2,3)</td>
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</tr>
<tr>
<td></td>
<td>Foreign Language (^2)</td>
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<tr>
<td></td>
<td>Distribution Requirements (^1)</td>
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<tr>
<td></td>
<td>Humanities</td>
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<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
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Music, BFA: Music History and Literature Requirements

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<tr>
<td>Muserf 2XX (Principal Instrument)</td>
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<tr>
<td>MusPerf 5XX (Performance Master Class)</td>
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<tr>
<td>Performance Ensemble</td>
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<tr>
<td>MUSIC 452</td>
<td>Collegium Musicum (^5)</td>
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<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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</tr>
<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td>3</td>
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<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 450</td>
<td>Introduction to Musicology</td>
<td>3</td>
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## Music History Electives

Complete 12 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
</tr>
<tr>
<td>MUSIC 317</td>
<td>Introduction to American Music</td>
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<tr>
<td>MUSIC 409</td>
<td>Folk Music in Contemporary Culture</td>
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<td>MUSIC 410</td>
<td>Topics in World Music:</td>
</tr>
<tr>
<td>MUSIC 449</td>
<td>Women in Music:</td>
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<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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</tbody>
</table>

### Electives in Related Areas

7-9 credits

3 of your 7-9 credits must be taken in an appropriate English composition course. See Area Head for courses and approval.

### General Electives

5 credits

May be taken from any area of the University (including Music) to fulfill requirements.

### Foreign Language

14 credits

Minimum four-semesters of study in a single language. German is the preferred language. Italian is also acceptable.

5 credits

Enroll in and complete four semesters at 1 credit per semester.

## Plan of Study

### Year 1

#### Fall

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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<tr>
<td>or MUSPERF 101</td>
<td>or Lessons in Piano:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
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<td>MUSIC 127</td>
<td>Materials of Theory I</td>
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<tr>
<td>MusPerf 5XX</td>
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<tr>
<td>HIST 101</td>
<td>Western Civilization: Ancient World to 1500</td>
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#### Spring

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<td>MUSPERF 1</td>
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<tr>
<td>or MUSPERF 101</td>
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<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
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<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
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<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MusPerf XXX</td>
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<td>1</td>
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<tr>
<td>MusPerf 2XX</td>
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<tr>
<td>MusPerf 5XX</td>
<td></td>
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<tr>
<td>HIST 102</td>
<td>Western Civilization: 1500 to the Present</td>
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<td>Electives or Core Curriculum</td>
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### Year 2

#### Fall

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<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
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### Year 3

#### Fall

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<th>Course Title</th>
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<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>1</td>
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<tr>
<td>MusPerf XXX</td>
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<td>1</td>
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<tr>
<td>Music of the Classic Era</td>
<td></td>
<td>1</td>
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<tr>
<td>Music of the Romantic Era</td>
<td></td>
<td>1</td>
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<tr>
<td>Music since 1900</td>
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<td>Music of the Medieval Era</td>
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<tr>
<td>Music of the Renaissance and Early Modern Era</td>
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### Year 4

#### Fall

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<td>Selected Topics in Music History and Literature:</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>1</td>
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<td>Music of the Classic Era</td>
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<td>1</td>
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<td>Music of the Romantic Era</td>
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### Credits

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
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<td>32</td>
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</table>

### Select one Music History elective:

Choose one Music History elective:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>1</td>
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### Credits

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>17</td>
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### Select one Music History elective:

Choose one Music History elective:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>1</td>
</tr>
</tbody>
</table>
All new freshmen are required to take Theory and Piano Placement exams in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses. Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams
All new freshmen are required to take Theory and Piano Placement exams on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students
All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application
To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent
Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition
All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional
Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation
A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted
Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition
Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.
Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements.

For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/. (http://uwm.edu/arts/advising/)

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.
High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Piano**

Our performance programs are led by renowned performing artist faculty. Piano majors take private lessons and master classes, and perform regularly in concerts and recitals.

**Requirements**

**University Core**

<table>
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<th>Code</th>
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<tr>
<td></td>
<td>Competencies</td>
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<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B ²,³</td>
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<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B ²,³</td>
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<tr>
<td></td>
<td>Foreign Language ²</td>
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<td></td>
<td>Distribution Requirements ¹</td>
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<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
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<tr>
<td></td>
<td>Cultural Diversity ²</td>
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<td>Electives Outside Peck School of the Arts</td>
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</tr>
<tr>
<td></td>
<td>Electives in Peck School of the Arts  ¶</td>
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</table>

¹ See General Education Requirements (p. 29) for more information.
² Credits may be utilized in required curriculum areas.
³ OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
⁴ 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

**Music BFA Requirements**

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
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<td>MUSIC 1 Theory Fundamentals</td>
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<td>MUSPERF 1 Fundamentals of Piano:</td>
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<td>Music Theory</td>
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<td>MUSIC 123 Aural Theory I</td>
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<tr>
<td></td>
<td>MUSIC 124 Aural Theory II</td>
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<td></td>
<td>MUSIC 128 Materials of Theory II</td>
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<td>MUSIC 226 Aural Theory III</td>
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<td>MUSIC 230 Form Analysis</td>
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<td>MUSIC 212 General History of Western Music II</td>
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<td>MUSIC 307 General History of Western Music III</td>
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<td></td>
<td>Convocation</td>
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<td>MUSIC 106 Foundations of Music</td>
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<td>MUSIC 107 Music Convocation</td>
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**Piano Requirements**

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<td>Performance Master Class</td>
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<td></td>
<td>MUSPERF 501 Master Class in Keyboard Instruments, Piano (enroll in this course every semester for 1 credit)</td>
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<tr>
<td></td>
<td>Performing Organizations ⁶</td>
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<tr>
<td></td>
<td>Accompanying ⁷</td>
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<tr>
<td></td>
<td>MUSIC 259 Accompanying</td>
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<tr>
<td></td>
<td>Performance Repertoire ⁸</td>
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<td>MUSIC 275 Keyboard Performance Repertoire</td>
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<td>MUSIC 276 Keyboard Performance Repertoire</td>
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<td>MUSIC 421 Materials of Theory IV</td>
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<td>Music Theory Electives</td>
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</table>

*Complete one of the following:*
### MUSIC 220  Introduction to Computers and Music  3
### MUSIC 327  Analog and Digital Synthesis I  3
### MUSIC 323  Instrumental and Choral Orchestration  3
### MUSIC 680  Special Studies in Music:  1-3

#### Music History Electives

Complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
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</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
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#### Recital

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<td>MUSIC 659</td>
<td>Junior Recital</td>
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<tr>
<td>MUSIC 660</td>
<td>Senior Recital:</td>
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</table>

#### Music Electives

6

#### General Electives

5

May be taken from any area of the University (including Music) to fulfill requirements

---

5 Music Performance Class is required with lessons each semester. MusPerf 3XX Principal Instrument (4 semesters minimum; 2 credits each semester) and MusPerf 4XX Principal Instrument (4 semesters minimum; 2 credits each semester).

6 Music XXX Choral Ensemble (2 semesters) and Music XXX (any ensemble with Piano faculty consent; complete 4 credits at 1 credit per semester).

7 Enroll in 2 credits of MUSIC 259 for 2 semesters.

8 Complete two credits of each: MUSIC 275 and MUSIC 276

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### Plan of Study

#### Year 1

**Fall**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
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<tr>
<td>MusPerf 3XX</td>
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**Spring**

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<td>Music Convocation</td>
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<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
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<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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</tr>
<tr>
<td>MusPerf 3XX</td>
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<td>Performance Ensemble</td>
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<tr>
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**Total Credits:** 16

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**Fall**

<table>
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<tbody>
<tr>
<td>MUSIC 107</td>
<td>General History of Western Music I</td>
<td>3</td>
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<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<td>MusPerf 3XX</td>
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<td>Performance Ensemble</td>
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<tr>
<td>Electives and Core Curriculum</td>
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**Total Credits:** 16

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#### Year 2

**Fall**

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<tr>
<td>MUSIC 107</td>
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<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
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<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MusPerf 3XX</td>
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<td>Performance Ensemble</td>
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<td>1</td>
</tr>
<tr>
<td>Electives and Core Curriculum</td>
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**Total Credits:** 16

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#### Year 3

**Fall**

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<tbody>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 259</td>
<td>Accompanying</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 275</td>
<td>Keyboard Performance Repertoire</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
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<tr>
<td>MusPerf 4XX</td>
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<td>Electives or Core Curriculum</td>
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**Total Credits:** 19

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#### Year 4

**Fall**

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<tr>
<td>MusPerf 4XX</td>
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<td>2</td>
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<tr>
<td>Choose one:</td>
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<td>3</td>
</tr>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
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<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
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<td>MUSIC 314</td>
<td>Music since 1900</td>
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<tr>
<td>Electives or Core Curriculum</td>
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</table>

**Total Credits:** 15

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#### Performance Ensemble

- Piano majors are required to enroll in a minimum of 6 semesters of ensemble with a minimum of 2 semesters in a choral ensemble and 4 semesters in any ensemble with iani or oragn instructor consent.

#### Performance Master Class

- 8 semesters at 1 credit is required as part of your individual lesson obligation.

---

#### 0 Credit Courses

- A 1 credit fee will be assessed by the University if a student’s course load is less than 12 or greater than 18 credits.
Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply/). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/y2c0m9frf5/) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation:Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:
• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:
• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:
• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Advising
Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/ . (http://uwm.edu/arts/advising/)

Honors in the Major
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Music, BFA: Strings

Our competitive performance programs are led by renowned performing artist faculty. Students regularly perform as soloists, chamber musicians, and orchestral musicians while earning their degree. They are prepared for modern, multifaceted professional careers as performers and/or teachers. The program offers a thorough grounding in instrumental technique and repertory, and broad and continuous experience in performance.

Requirements

University Core

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<td>Competencies</td>
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<td>Oral and Written Communication – Part A and Part B</td>
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<td>Natural Sciences (Must include one lab)</td>
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<td>Social Sciences</td>
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<td>Cultural Diversity</td>
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1 See General Education Requirements (p. 29) for more information.
2 Credits may be utilized in required curriculum areas.
3 OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
4 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

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<td>MUSIC 1 Theory Fundamentals</td>
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<td>MUSIC 226 Aural Theory III</td>
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Music History

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<tr>
<td></td>
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<td>MUSIC 212 General History of Western Music II</td>
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<td>MUSIC 307 General History of Western Music III</td>
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Convocation

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Total Credits 23

Strings Requirements

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<tr>
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<td>MUSIC 447 String Pedagogy in the Studio</td>
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<td>MUSIC 182 Symphony Orchestra</td>
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<td><strong>Chamber Music</strong></td>
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<td>MUSIC 361 Ensemble - Piano</td>
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<td>MUSIC 365 Ensemble - Woodwind</td>
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<td>MUSIC 367 Ensemble - Brass</td>
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<td>MUSIC 369 Ensemble - Strings</td>
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<td>MUSIC 370 Chamber Ensemble - Mixed</td>
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<td>MUSIC 561 Advanced Chamber Music</td>
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<td>MUSIC 321 Counterpoint</td>
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<td>MUSIC 323 Instrumental and Choral Orchestration</td>
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<td>MUSIC 327 Analog and Digital Synthesis I</td>
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<td>MUSIC 420 Advanced Computing and Music</td>
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<td>MUSIC 421 Materials of Theory IV</td>
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<td>MUSIC 680 Special Studies in Music:</td>
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<td><strong>Complete one of the following:</strong></td>
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<td>MUSIC 308 Selected Topics in Music History and Literature:</td>
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<td>MUSIC 311 Music of the Baroque Era</td>
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<td>MUSIC 312 Music of the Classic Era</td>
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<td>MUSIC 313 Music of the Romantic Era</td>
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<td>MUSIC 611 Music of the Medieval Era</td>
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<td>MUSIC 612 Music of the Renaissance and Early Modern Era</td>
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<td><strong>Recital</strong></td>
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<td><strong>General Electives</strong></td>
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</table>
May be taken from any area of the University (including Music) to fulfill requirements

Total Credits 54-63

5 Music Performance Class is required with lessons each semester. MusPerf 3XX Principal Instrument (4 semesters minimum; 2 credits each semester) and MusPerf 4XX Principal Instrument (4 semesters minimum; 2 credits each semester).

6 8 semesters of Orchestra required while concurrently taking studio lessons.

7 Complete 1-4 credits in MUSIC 361, MUSIC 365, MUSIC 367, MUSIC 369, and/or MUSIC 370; complete 1-4 credits in MUSIC 561.

### Plan of Study

#### Year 1

<table>
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<td>Foundations of Music</td>
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<td>MUSIC 182</td>
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#### Spring

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<td>MUSIC 124</td>
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#### Spring

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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
</tr>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
</tr>
<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
</tr>
<tr>
<td>Electives or Core Curriculum</td>
<td>6</td>
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<table>
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<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>15</td>
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</table>
Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

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Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9rfs/) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.
Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/ (http://uwm.edu/arts/advising/)

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.
High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Versatile Voice**

The market for professional singers is changing—opera singers are performing in musicals, Broadway performers are singing operas, and pop singer training is improving dramatically. UWM is out in front of these changes with our BFA: Versatile Voice, a program that is broad enough to cover many genres and flexible enough to reflect each student’s interest.

**Requirements**

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements  1</td>
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<td></td>
<td>Competencies</td>
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<td></td>
<td>Oral and Written Communication – Part A and Part B 2,3</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B 2,3</td>
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<td>Foreign Language</td>
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<td>Distribution Requirements  1</td>
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<td></td>
<td>Humanities</td>
<td>6</td>
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<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
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</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
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**Versatile Voice Requirements**

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUSIC 604</td>
<td>Business for Performing Artists</td>
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<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>or DANCE 115</td>
<td>Jazz Dance I</td>
<td></td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 327</td>
<td>Dance for the Musical Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 245</td>
<td>Basic and Italian Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 246</td>
<td>German and French Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 310</td>
<td>Introduction to World Musics</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 444</td>
<td>Vocal Pedagogy I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre 1</td>
<td>0-3</td>
</tr>
<tr>
<td>MUSIC 520</td>
<td>Voice Performance in Popular Music Styles</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Music BFA Requirements**

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
<td></td>
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<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
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<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
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</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td></td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
<td></td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td></td>
</tr>
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</table>

Total Credits: 23
Theater 408  Acting in Musical Theatre 3

**Principal Instrument**

MUSPERF 311  Lessons in Voice:
MUSPERF 411  Lessons in Voice:

**Performance Master Class**

MUSPERF 511  Master Class in Voice

**Foreign Language Requirement**

ITALIAN 103  First-Semester Italian 4

**Lessons in Piano**

MUSPERF 101  Lessons in Piano:

**Performing Ensemble**

Complete 4-8 credits:

- MUSIC 44  Alta Voce Singers
- MUSIC 50  Kameraden Chorus
- MUSIC 52  Bella Voce
- MUSIC 56  Concert Chorale

Choose up to 4 credits of the following:

- MUSIC 62  University Community Gospel Choir
- MUSIC 457  Opera Theatre
- THEATRE 475  Rehearsal and Performance:

**Music Theory Electives**

Choose one of the following:

- MUSIC 220  Introduction to Computers and Music
- MUSIC 321  Counterpoint
- MUSIC 323  Instrumental and Choral Orchestration
- MUSIC 327  Analog and Digital Synthesis I
- MUSIC 328  Digital Synthesis and Systems II
- MUSIC 420  Advanced Computing and Music
- MUSIC 421  Materials of Theory IV
- MUSIC 680  Special Studies in Music:

**Music History Electives**

Choose one of the following:

- MUSIC 308  Selected Topics in Music History and Literature:
- MUSIC 311  Music of the Baroque Era
- MUSIC 312  Music of the Classic Era
- MUSIC 313  Music of the Romantic Era
- MUSIC 314  Music since 1900
- MUSIC 317  Introduction to American Music

**Recital**

- MUSIC 659  Junior Recital
- MUSIC 660  Senior Recital:

**General Electives**

May be taken from any area of the University (including Music) to fulfill requirements

1. Students enroll in MUSIC 457 for a total of 6 credits.
2. Full time students must enroll in one ensemble each semester.

**Undergraduate Admission and Audition Procedures**

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply/). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

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The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

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- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

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Dean’s Honor List
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Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

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Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Voice
The charge of the Voice Area is to teach skills for future success in music, to offer solid vocal technique and knowledge of vocal health. This training is built upon a foundation of history, theory, and a varied repertoire of vocal music. A spirit of genuine collaboration both within and outside of the voice area offers experiences in many musical styles, fostering future performers, pedagogues and leaders in the arts.

Requirements

University Core

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
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<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
</tbody>
</table>

Music BFA Requirements
The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.
Convocation | 6
--- | ---
MUSIC 106 | Foundations of Music
MUSIC 107 | Music Convocation

Voice Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 245</td>
<td>Basic and Italian Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 246</td>
<td>German and French Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 377</td>
<td>Song Literature I: Italy, Germany, France, Great Britain</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 378</td>
<td>Song Literature II: United States and Select European Countries</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 444</td>
<td>Vocal Pedagogy I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 445</td>
<td>Vocal Pedagogy II</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

Principal Instrument | 16
--- | ---
MUSPERF 311 | Lessons in Voice: |
MUSPERF 411 | Lessons in Voice: |

Performance Master Class | 8
--- | ---
MUSPERF 511 | Master Class in Voice |

Foreign Language Requirement | 16
--- | ---
Lessons in Piano | 2
MUSPERF 101 | Lessons in Piano: |

Performing Ensemble | 8
--- | ---
MUSIC 44 | Alta Voce Singers |
MUSIC 50 | Kameraden Chorus |
MUSIC 52 | Bella Voce |
MUSIC 56 | Concert Chorale |

Music Theory Electives

Choose one of the following:

- MUSIC 220 | Introduction to Computers and Music |
- MUSIC 321 | Counterpoint |
- MUSIC 322 | Instrumental and Choral Orchestration |
- MUSIC 327 | Analog and Digital Synthesis I |
- MUSIC 328 | Digital Synthesis and Systems II |
- MUSIC 420 | Advanced Computing and Music |
- MUSIC 421 | Materials of Theory IV |
- MUSIC 680 | Special Studies in Music: |

Music Electives

Choose one of the following:

- MUSIC 308 | Selected Topics in Music History and Literature: |
- MUSIC 311 | Music of the Baroque Era |
- MUSIC 312 | Music of the Classic Era |
- MUSIC 313 | Music of the Romantic Era |
- MUSIC 314 | Music since 1900 |
- MUSIC 611 | Music of the Medieval Era |
- MUSIC 612 | Music of the Renaissance and Early Modern Era |

Recital

- MUSIC 659 | Junior Recital |
- MUSIC 660 | Senior Recital: |

Total Credits | 23

**Undergraduate Admission and Audition Procedures**

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply/). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

**Theory & Piano Placement Exams**

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/y9n9r9f5/) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

**Transfer Students**

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education
program should contact the Chair of the Music Education area prior to audition.

**Music Admission Application**

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

**Statement of Intent**

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

**Audition**

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

**Provisional**

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

**Probation**

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

**Not Accepted**

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

**Re-Audition**

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

**Degree Requirements**

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

**Performance Ensemble Requirement**

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Recital Attendance and Music Convocation Requirements**

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

**Music Theory and History Requirements**
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

**Laptop Requirement**
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

**Advising**
Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**
Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

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**Honors in the Peck School of the Arts**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Winds, Brass, and Percussion**
The BFA: Winds, Brass, and Percussion program is designed to prepare students for professional performing careers and studio teaching. The goal of the program is to graduate students who are expert performers and knowledgeable music scholars. Students take private lessons and master classes; and perform solo recitals, chamber music, orchestral music, and wind band music while working on their degrees.

**Requirements**

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1</td>
<td>General Education Requirements (^1)</td>
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<tr>
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<td>Competencies</td>
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<td></td>
<td>Oral and Written Communication – Part A and Part B (^2,3)</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B (^2,3)</td>
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</tr>
<tr>
<td></td>
<td>Foreign Language (^2)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Distribution Requirements (^1)</td>
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<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
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<tr>
<td></td>
<td>Cultural Diversity (^2)</td>
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<td>4</td>
<td>Electives Outside Peck School of the Arts</td>
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</tr>
<tr>
<td>4</td>
<td>Electives in Peck School of the Arts (^4)</td>
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<td>3</td>
<td>Electives Outside Discipline</td>
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</tr>
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<td></td>
<td>Total Credits</td>
<td>45</td>
</tr>
</tbody>
</table>

\(^1\) See General Education Requirements (p. 29) for more information.
\(^2\) Credits may be utilized in required curriculum areas.
\(^3\) OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

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The BFA: Winds, Brass, and Percussion program comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.
9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

**Music BFA Requirements**

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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**Music Theory**

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<tr>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td></td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
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</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
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**Music History**

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<td>MUSIC 211</td>
<td>General History of Western Music I</td>
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<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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**Convoction**

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<td>Foundations of Music</td>
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</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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</table>

**Total Credits**

23

**Winds, Brass, and Percussion Requirements**

<table>
<thead>
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<th>Credits</th>
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<tbody>
<tr>
<td>MusPerf 3XX</td>
<td>Fundamentals of Piano:</td>
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**Performance Ensemble Requirement:**

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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 30</td>
<td>University Community Band</td>
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</tr>
<tr>
<td>MUSIC 40</td>
<td>Symphony Band</td>
<td></td>
</tr>
<tr>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td></td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
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</tbody>
</table>

**Electives or Core Curriculum**

7

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
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<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
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</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
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</tr>
<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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**Recital**

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<td>MUSIC 659</td>
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<td>MUSIC 660</td>
<td>Senior Recital:</td>
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**Music Electives**

7

May be taken from any area of the University (including Music) to fulfill requirements

**Includes four semesters of Music Performance at 300 level (2 credits per semester for a total of 8 credits) and four semesters at 400 level (2 cr credits per semester for a total of 8 credits.)

**Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class.**

**Plan of Study**

**Year 1**

<table>
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<tr>
<th>Semester</th>
<th>Code</th>
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<tr>
<td><strong>Fall</strong></td>
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<td>Fundamentals of Piano:</td>
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<tr>
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<tr>
<td></td>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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</tr>
<tr>
<td></td>
<td>Performance Ensemble Requirement:</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>MUSIC 30</td>
<td>University Community Band</td>
<td></td>
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<tr>
<td></td>
<td>MUSIC 40</td>
<td>Symphony Band</td>
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</tr>
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<td></td>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
<td></td>
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<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
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<td>Foundations of Music</td>
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<td>Aural Theory I</td>
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<td></td>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
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<td>Performance Ensemble Requirement:</td>
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<tr>
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<td>MUSIC 30</td>
<td>University Community Band</td>
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<td>Symphony Band</td>
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<td>MUSIC 42</td>
<td>Wind Ensemble</td>
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<td></td>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td></td>
<td>MUSIC 124</td>
<td>Aural Theory I</td>
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<td></td>
<td>MUSIC 128</td>
<td>Materials of Theory I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives or Core Curriculum</td>
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<td>Credits</td>
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**Year 2**

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<tr>
<td><strong>Fall</strong></td>
<td>MusPerf 3XX</td>
<td>Fundamentals of Piano:</td>
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<tr>
<td></td>
<td>MusPerf 5XX</td>
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</table>
## Performance Ensemble Requirement:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUSIC 30</td>
<td>University Community Band</td>
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<tr>
<td>MUSIC 40</td>
<td>Symphony Band</td>
</tr>
<tr>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
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**Spring**

<table>
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<tbody>
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**Performance Ensemble Requirement:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUSIC 30</td>
<td>University Community Band</td>
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<tr>
<td>MUSIC 40</td>
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</tr>
<tr>
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<td>Wind Ensemble</td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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**Year 3**

**Fall**

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<tbody>
<tr>
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<td>MUSIC 307</td>
<td>General History of Western Music III</td>
</tr>
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<td>MUSIC 321</td>
<td>Counterpoint</td>
</tr>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
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**Performance Ensemble Requirement:**

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<tr>
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<tbody>
<tr>
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**Chamber Ensemble Requirement:**

<table>
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<tbody>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
</tr>
<tr>
<td>MUSIC 365</td>
<td>Ensemble - Woodwind</td>
</tr>
<tr>
<td>MUSIC 367</td>
<td>Ensemble - Brass</td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
</tr>
<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
</tr>
<tr>
<td>MUSIC 561</td>
<td>Advanced Chamber Music</td>
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<table>
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**Spring**

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**Chamber Ensemble Requirement:**

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**Year 4**

**Fall**

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<th>Course Code</th>
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<tbody>
<tr>
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<table>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 323</td>
<td>Counterpoint</td>
</tr>
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<td>MUSIC 353</td>
<td>Conducting</td>
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**Performance Ensemble Requirement:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>MUSIC 30</td>
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<td>Wind Ensemble</td>
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<td>Symphony Orchestra</td>
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**Chamber Performance Requirement:**

<table>
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**Spring**

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<td>Senior Recital</td>
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<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
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<tr>
<td>or MUSIC 421</td>
<td>or Materials of Theory IV</td>
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**Total Credits**

<table>
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<th>Credits</th>
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## Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days ([http://uwm.edu/arts/apply/](http://uwm.edu/arts/apply/)). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.
Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams
All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9frf5/) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students
All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application
To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent
Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition
All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional
Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation
A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation.

(2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted
Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition
Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements
All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement
All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students
Credits from an accredited college/university for performing organizations may be granted as follows:

• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department
as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

### Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

### Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

### Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

### Advising

**Location**: Theatre 120  
**Reception Hours**: 9AM-4PM Monday through Friday (closed on university holidays)  
**Contact**: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/ (http://uwm.edu/arts/advising/)

### Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

### Honors in the Peck School of the Arts

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Music, Minor

Students enroll in a required music theory and music history core. Music minors choose from a wide array of music electives in order to create programs uniquely matched to their interests. Students choosing private lessons must audition either at a scheduled audition day, at ensemble auditions, or with Music Department area heads and be admitted to lessons at the discretion of the instructor and area head. Please note that the Minor in Music does not meet the Wisconsin Department of Instruction requirements for Music Education licensure.

### Requirements

Students must complete at least 22 credits to receive the Minor in Music. Students must complete a minimum of 12 credits at UWM:
Music, MM/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MM Music (Music History and Literature concentration only)

The coordinated degree program (54 credits) prepare students in the Music History and Literature concentration for positions as music librarians.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 127</td>
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<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
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<td>MUSIC 123</td>
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<td>1</td>
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<td>MUSIC 124</td>
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<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Additional Requirements

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 450</td>
<td>Introduction to Musicology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 452</td>
<td>Collegium Musicum (1 credit each for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 911</td>
<td>Seminar In Musicology I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music History</td>
<td>6</td>
</tr>
<tr>
<td>Other Areas of Music</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-30</td>
</tr>
<tr>
<td>3 credits of General Electives (UG or G)</td>
<td></td>
</tr>
<tr>
<td>30 credits in Library Science if M.M./MLIS major</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30-57</td>
</tr>
</tbody>
</table>

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td></td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses | 18

Total Credits | 30

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.
Music, MM: Chamber Music Performance

This concentration is designed for the instrumentalist who is admitted by audition to the Institute of Chamber Music at UW-Milwaukee. The major focus of the Institute of Chamber Music is to provide professional training experiences in the performance of chamber repertoire through well-matched chamber ensembles from duos through large chamber ensembles. The student who successfully completes 24 specified credits and the recital requirement receives a Performer's Certificate from the Institute; the student who successfully completes 33 specified credits and the other degree requirements receives a Master of Music with a concentration in Chamber Music Performance.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpgnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in
music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 33 credits. Each student follows an integrated curriculum in which all subjects are related and no course is optional.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>Select the following for 1 credit each for 4 semesters:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUSIC 806</td>
<td>Chamber Music Master Class</td>
<td></td>
</tr>
<tr>
<td>Select the following for 2 credit each for 4 semesters:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MUSIC 835</td>
<td>Chamber Music Coaching</td>
<td></td>
</tr>
<tr>
<td>Group Recital Requirement</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Select the following for 1 credit each for 4 semesters:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 855</td>
<td>Instrumental Master Class</td>
<td></td>
</tr>
<tr>
<td>Select the following for 2 credit each for 4 semesters:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MUSPERF BXX</td>
<td>Performance (Instrument Lessons)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 33

1 Not required in Performer’s Certificate.
2 Met at end of program.

Additional Requirements

Students in the Institute of Chamber Music are admitted for a two-year program of study. Students are either part of an existing chamber group before entrance or, when admitted, assigned to a group. If the first-year group does not continue for a second year, the student must re-audition for membership in a new or reconstituted group that is acceptable to the faculty in order to continue for a second year of study.

At the end of the first year, each student’s performance is judged by the Director of the Institute in consultation with the members of the ICM advisory committee. If a student does not meet the required performance level, the student is prevented from continuing in the Institute for a second year. The student may, if acceptable to the Department graduate faculty, choose to follow another graduate program in the Department.

The student who successfully completes 24 specified credits and the recital requirement receives a Performer’s Certificate from the Institute; the student who successfully completes 33 specified credits and the other degree requirements receives a Master of Music with a concentration in Chamber Music Performance.

Thesis Recital

The recital should be given no sooner than the final semester of coursework. The student ensemble must present a program which has been approved by the Graduate Committee and by the Director of the Institute of Chamber Music. This requirement applies both to candidates for the MM in Chamber Music Performance and to the student working toward the Performer’s Certificate.

Comprehensive Examination

Comprehensive examinations in both music history and music theory will be required of each student in the MM in Chamber Music Performance concentration. This requirement normally follows successful completion of a recital requirement. Comprehensives are not required of students seeking the Performer’s Certificate.

Time Limit

The student must complete all degree or certificate requirements within four years of initial enrollment.

Music, MM: Collaborative Piano: Instrumental

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in instrumental repertoire. A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Applicant proposing concentration in Music Performance Collaborative Piano: Instrumental must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an
applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

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2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

**Credits and Courses**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be in another music area, and 2 of which may be in one of the other areas or in a related field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Specific Requirements</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis (Recital)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Performance</td>
<td>Select the following for 2 credits each for 4 semesters:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 704</td>
<td>Collaborative Piano - Instrumental</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 706</td>
<td>Sonatas, Piano and String</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Répertoire**

<table>
<thead>
<tr>
<th>Code</th>
<th>Electives</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 755</td>
<td>Advanced Instrumental Repertoire I: Strings</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MUSIC 757</td>
<td>Advanced Instrumental Repertoire I: Brass and Woodwinds</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

32

The program must also include 3 credits in MUSIC 314, if not previously completed.

**Additional Requirements**

**Recital**

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee of the Department of Music, and the student must present a satisfactory recital audition before the recital may be scheduled.
Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Collaborative Piano: Vocal

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in the vocal repertoire.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course
in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be in another music area, and 2 of which may be in one of the other areas or in a related field.

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</thead>
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<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Performance</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the following for 2 credits each for 4 semesters:</td>
<td>8</td>
</tr>
<tr>
<td>MUSPERF 703 Collaborative Piano - Vocal</td>
<td></td>
</tr>
<tr>
<td>Select the following for 1 credit each for 4 semesters:</td>
<td>4</td>
</tr>
<tr>
<td>MUSPERF 705 Techniques of Opera Coaching and Accompanying</td>
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<thead>
<tr>
<th>Répertoire</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 753 Advanced Song Literature I</td>
<td>2</td>
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<tr>
<td>MUSIC 754 Advanced Song Literature II</td>
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<table>
<thead>
<tr>
<th>Electives</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Music</td>
<td>2</td>
</tr>
<tr>
<td>General</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits</td>
<td>32</td>
</tr>
</tbody>
</table>

The program must also include 3 credits in MUSIC 314, if not previously completed.

For Vocal Collaborative majors: proficiency in French, German, and Italian diction is determined through a reading of song and aria texts for collaborative and voice faculties. Students whose diction skills are deficient are required to enroll in the appropriate course without degree credit. Completion of the course with a grade of B or better satisfies the deficiency.

**Additional Requirements**

**Recital**

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee of the Department of Music, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Music, MM: Conducting: Choral Emphasis**

This concentration is designed primarily for the student with an undergraduate degree in music education or performance who wishes to pursue advanced training in Conducting: Choral Emphasis plus related studies in music performance and allied areas. A student must successfully pass an audition that demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Applicant proposing concentration in Music Performance Conducting: Choral Emphasis must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application timeline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found...
by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

**Admission**

A student must successfully pass an audition which demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uw.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship.

**Credits and Courses**

An applicant must meet Graduate School requirements (http://uw.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<thead>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Choral Conducting students will take the UWM Basic Diction MUS ED 249 Final Exam upon entrance into the MM degree program. If deficiencies are found, students will take MUS ED 249 as a prerequisite course that will not count toward earned degree credits.

Minimum degree requirement is 31 graduate credits, 29 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Specific Requirements</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC 732</td>
<td>Score Reading</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis (Public Performance)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Literature**

Select one of the following:

- MUSIC 559 The Wind Band: Its History and Literature
- MUSIC 715 Choral Literature
- MUSIC 799 Advanced Independent Work (Orchestral Literature)

**Performance**

1 credit each for 2 semesters:

- MUSIC XXX Private Lessons

**Ensemble**

1 credit each for 3 semesters

- MUSIC XXX Ensemble

**Electives**

General

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 31

1 Students in the MM Choral Conducting emphasis must take MUSPERF 911 to satisfy the Performance requirement, and must take MUSIC 444 (previously 446).

2 Ensemble will be assigned upon audition.

The program must also include MUSIC 314, if not previously completed.
Additional Requirements

Thesis (Public Performance)
The student must present a recital demonstrating conducting abilities. Performance of literature from a variety of style periods, including a twentieth-century composition by an American composer, should be included. The proposed program must be approved by the Graduate Committee before the recital may be scheduled. Candidates must also prepare a written document, following all procedures as dictated by the Graduate Committee, in consultation with their main advisor. (The student should consult with the primary faculty advisor for individual area guidelines.)

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the thesis requirement.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Conducting: Instrumental

This concentration is designed primarily for the student with an undergraduate degree in music education or performance who wishes to pursue advanced training in Conducting: Instrumental plus related studies in music performance and allied areas. A student must successfully pass an audition that demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Applicant proposing concentration in Music Performance Conducting: Instrumental must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

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Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
</tbody>
</table>

music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
A student must successfully pass an audition which demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 31 graduate credits, 29 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

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</thead>
<tbody>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

The program must also include MUSIC 314, if not previously completed.

**Additional Requirements**

**Thesis (Public Performance)**
The student must present a recital demonstrating conducting abilities. Performance of literature from a variety of style periods, including a twentieth-century composition by an American composer, should be included. The proposed program must be approved by the Graduate Committee before the recital may be scheduled. Candidates must also prepare a written document, following all procedures as dictated by the Graduate Committee, in consultation with their main advisor. (The student should consult with the primary faculty advisor for individual area guidelines.)

**Comprehensive Examination**
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the thesis requirement.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Music, MM: Music Education**

This concentration is designed for practicing music educators who wish to advance their knowledge and skills in both music and music pedagogy. An undergraduate degree in music education is required with two years teaching experience in a school setting. The program is intended to build on the student's understanding of teaching pedagogy in any area of music education (general, choral or instrumental), strengthen the philosophical underpinnings of that teaching, bring to light opportunities for action research within a school setting, and provide additional areas of exploration including applied instrumental or vocal study, conducting technique, music theory and music history.

While prospective students are not required to submit Graduate Record Examination (http://uw.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicant must have an undergraduate degree in music education with certification and teaching experience, except by special permission.

Applicant should contact faculty in the Music Education area to inquire about other entrance requirements.

An audition is required only if the applicant plans to take performance lessons at the 700 level, or if an audition is required for acceptance into an emphasis program (instrumental conducting or choral conducting).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
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Credits and Courses
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<td>3</td>
</tr>
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</table>

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Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits.

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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS ED 710</td>
<td>Research in Music Education</td>
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</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
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<td>MUS ED 777</td>
<td>Foundations of Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 778</td>
<td>Recent Developments in Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 990</td>
<td>Thesis or Final Project</td>
<td>3</td>
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</tbody>
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<tr>
<th>Electives</th>
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<tbody>
<tr>
<td>Music Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music Performance, Conducting, Theory, Music History, or related areas</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30

Additional Requirements

Thesis or Final Project
A formal written thesis, lecture/recital, composition with pedagogical intent and analysis, major annotated bibliography, curriculum synthesis, or other type of music education project is required. The student must submit a written proposal to the major advisor to be approved by the Graduate Committee prior to registration.

Examination in the Major
The student must pass a final written examination in music and music education. This exam will reflect the nature of the student’s program of studies. Further questions concerning the exam should be directed toward the student’s major advisor.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
Music, MM: Music History and Literature

This concentration is designed primarily for students who wish to do advanced study in music history and literature. For some students, the degree is a terminal degree (for example, music teachers who may wish to pursue graduate work in music history rather than in music education), while for others it serves as preparation for the study of musicology at the doctoral level.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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Admission Requirements

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Admission

Applicant must have a reading knowledge of a language other than English, preferably German.

Applicant must submit two examples of written work (essays, research papers).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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Credits and Courses

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<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate history elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.
The student must complete all degree requirements within five years of initial enrollment.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Performance: Guitar

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill. The student may specialize in either classical, finger-style, or jazz guitar. A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Applicant proposing concentration in Music Performance Guitar must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.
A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

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Credits and Courses
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<td>Materials of Theory I</td>
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</tr>
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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives and 2 of which may be in another area or in a related field.

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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Performance Repertoire

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 765</td>
<td>Advanced Instrumental Repertoire I: Guitar</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 766</td>
<td>Advanced Instrumental Repertoire II: Guitar</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td>General (U/G or G)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits: 32

The program must also include 3 credits in MUSIC 314, if not previously completed.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application is available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286.

Recital
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.
Ensemble Participation
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Performance: Keyboard
This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in performance and repertoire. A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Applicant proposing concentration in Music Performance Keyboard must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Credits and Courses
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<td>Materials of Theory II</td>
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</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>
in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

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<td>Graduate Seminar in Music History</td>
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<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis (or Final Project)</td>
<td>3</td>
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**Performance**

<table>
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<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSPERF 7XX</td>
<td>Performance Credits</td>
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**Advanced Performance Repertoire**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 4 credits in voice or chosen instrument (see below)</td>
<td>4</td>
<td></td>
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**Electives**

<table>
<thead>
<tr>
<th>Music</th>
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</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Credits</td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

**Advanced Performance Repertoire**

**Strings**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 755</td>
<td>Advanced Instrumental Repertoire I: Strings</td>
<td>2</td>
</tr>
</tbody>
</table>

Select the following for 1 credit each for 2 semesters:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 782</td>
<td>Symphony Orchestra</td>
<td>2</td>
</tr>
</tbody>
</table>

**Wind, Brass, Percussion**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 757</td>
<td>Advanced Instrumental Repertoire I: Brass and Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>or MUSIC 763</td>
<td>Advanced Percussion Performance Repertoire</td>
<td>2</td>
</tr>
</tbody>
</table>

Select 2 credits from the following:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 758</td>
<td>Advanced Instrumental Repertoire II: Brass and Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 782</td>
<td>Symphony Orchestra</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 789</td>
<td>Wind Ensemble</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 740</td>
<td>Symphony Band (previously 788)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Voice**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 753</td>
<td>Advanced Song Literature I</td>
<td>2</td>
</tr>
</tbody>
</table>

Select 2 credits from the following:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
<td>2</td>
</tr>
</tbody>
</table>

The program must also include 3 credits in MUSIC 314, if not previously completed.

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application is available upon request from the Department of Music, Dr. Timothy Noonan. tpnoonan@uwm.edu, 414-229-2286.

**Recital**
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Ensemble Participation**
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.
Music, MM: Performance: Percussion

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill in percussion. A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Applicant proposing concentration in Music Performance Percussion must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

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Admission Requirements

Application Deadlines

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Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
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Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with
a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

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<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History.</td>
<td>3</td>
</tr>
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<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
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</table>

**Performance**

<table>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSPERF 7XX</td>
<td>Performance Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

**Advanced Performance Repertoire**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 763</td>
<td>Advanced Percussion Performance Repertoire</td>
<td>2</td>
</tr>
</tbody>
</table>

Select 2 credits in one of the following:

- MUSIC 758 Advanced Instrumental Repertoire II: Brass and Woodwinds
- MUSIC 782 Symphony Orchestra
- MUSIC 789 Wind Ensemble
- MUSIC 740 Symphony Band (previously 788)

**Electives**

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<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>General</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 32

The program must also include 3 credits in MUSIC 314, if not previously completed.

**Additional Requirements**

**Recital**
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Ensemble Participation**
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master’s degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Music, MM: Performance: String Emphasis**

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill.

Applicant proposing concentration in Music Performance String Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-
site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

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**Credits and Courses**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

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<tbody>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

**Advanced Performance Repertoire**

Select the following for 1 credit each for 2 semesters:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 755</td>
<td>Advanced Instrumental Repertoire I: Strings</td>
<td>2</td>
</tr>
</tbody>
</table>

**Electives**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 782</td>
<td>Symphony Orchestra</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 32

The program must also include 3 credits in MUSIC 314, if not previously completed.

**Additional Requirements**

**Recital**

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.
Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Ensemble Participation
The student of violin, viola, violincello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the major’s degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Performance: Vocal Emphasis
This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill.

Applicant proposing concentration in Music Performance Vocal Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicant proposing concentration in Music Performance Vocal Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

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3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.
Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement:

MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

Additional Requirements

Recital
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Ensemble Participation
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master’s degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Performance: Woodwinds/Brass

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill in woodwinds or brass.

Applicants proposing concentration in Music Performance: Woodwinds/Brass must demonstrate outstanding performance skills. An on-site audition is required, in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

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first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements

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Admission
Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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Credits and Courses

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1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate history elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

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<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
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</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
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Advanced Performance Repertoire

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSPERF 7XX</td>
<td>Performance Credits</td>
<td>12</td>
</tr>
</tbody>
</table>
The student must complete all degree requirements within five years of initial enrollment.

**Time Limit**
The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Ensemble Participation**
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master’s degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application is available upon request from the Department of Music (Dr. Timothy Noonan, tnoonan@uwm.edu, 414-229-2286).

**Recital**
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Applicant should contact faculty in the appropriate string and String Pedagogy areas to inquire about audition and additional entrance requirements.

A student must successfully pass an audition at a satisfactory level of performance for admission to the program.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Music, MM: String Pedagogy**
This concentration is designed for the music student who wishes to concentrate primarily on the pedagogy of his/her major performing string instrument. A student must successfully pass an audition at a satisfactory level of performance for admission to the program.

Applicant proposing concentration in Music Performance String Pedagogy must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

The program must also include 3 credits in MUSIC 314, if not previously completed.

The program must also include 3 credits in MUSIC 314, if not previously completed.

### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 757</td>
<td>Advanced Instrumental Repertoire I:</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Brass and Woodwinds</td>
<td></td>
</tr>
<tr>
<td>MUSIC 758</td>
<td>Advanced Instrumental Repertoire II:</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Brass and Woodwinds</td>
<td></td>
</tr>
<tr>
<td>MUSIC 782</td>
<td>Symphony Orchestra</td>
<td></td>
</tr>
<tr>
<td>MUSIC 789</td>
<td>Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUSIC 740</td>
<td>Symphony Band (previously 788)</td>
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**Total Credits**

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Electives</td>
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<tr>
<td>General</td>
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<td>Total Credits</td>
<td>32</td>
</tr>
</tbody>
</table>

The program must also include 3 credits in MUSIC 314, if not previously completed.
may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 34 graduate credits, all of which must be in specified music areas.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
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<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 991</td>
<td>Recital And Lecture Demonstration</td>
<td>1</td>
</tr>
</tbody>
</table>

Performance

Select one of the following (1 credit each for 2 semesters):

- MUSPERF 541 Master Class in String Instruments, Violin
- MUSPERF 542 Master Class in String Instruments, Viola
- MUSPERF 543 Master Class in String Instruments, Violoncello
- MUSPERF 7XX String Instruments Violin/Viola/Cello (2 cr each for 4 semesters)

Select the following for 1 credit each for 2 semesters:

- MUSIC 782 Symphony Orchestra
- MUSIC 755 Advanced Instrumental Repertoire I: Strings
- MUSIC 756 Advanced Instrumental Repertoire II: Strings

Pedagogy

Select one of the following:

- MUSIC 718 Violin and Viola Pedagogy Level I
- MUSIC 719 Violin and Viola Pedagogy Level II
- MUSIC 720 Cello Pedagogy Level I
- MUSIC 721 Cello Pedagogy Level II

Additional Requirements

Recital and Lecture Demonstration

The recital and lecture demonstration may be given at any time before the completion of the degree program.

The recital consists of two parts:

1. A performance of a minimum of 30-45 minutes of music that has been approved by the major teacher
2. A lecture totaling approximately 30 minutes to be given before, during, or after the recital, in which the candidate discusses one or more pieces to be performed on the recital program, with emphasis on pedagogical values of the piece(s), the difficulties, and how they are overcome
Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Ensemble Participation
The student is required to participate in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument; in two of these semesters the student must be enrolled in Symphony Orchestra for credit (see Performance Credits above).

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Music, MM: Theory and Composition
This concentration is designed for the person possessing creative talent in acquiring and utilizing the techniques and craft of musical composition through theory, literature and analysis. We foster development in instrumental, vocal, and electro-acoustic composition, with an emphasis on contemporary and experimental techniques. Interested students should preferably have experience in computer notation, MIDI applications, theory, literature, and analysis pedagogic areas.

Applicant must submit a portfolio of original compositions which could include CD/DVD/computer software files/midi programs in addition to at least one excerpt and one complete composition in conventional notation or analytical research paper(s) or presentations submitted or presented in a regional or national theory society organization, computer assisted analysis or presentation in such areas as Schenkerian analysis or Spectromorphology in acoustic, electronic, or acoustmatic theory.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onstop/dates-and-deadlines/).

Admission
Applicant should preferably have experience in computer notation, MIDI applications, theory, literature, and analysis. Applicant must submit a portfolio of original compositions, which could include CD / DVD / computer software files / MIDI programs and must include at least one excerpt and one complete composition in conventional notation.

Applicant also could include one or both of the following:
1. Analytical research papers or presentations submitted or presented at regional or national theory, composition, or computer music conferences.
2. Computer-assisted analysis or presentations in such areas as Schenkerian analysis, spectromorphology in acoustic, electronic, or acoustmatic theory.

Applicant should possess keyboard proficiency of a level permitting the candidate to sight-read music of moderate difficulty and performance capability of compositions at the level of an early Beethoven sonata or Bach’s Two-part Inventions.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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2. A one-page resume of the applicant’s performance experience and extracurricular activities.
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4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.
Credits and Courses

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>2</td>
</tr>
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<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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</tr>
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<td>MUSIC 123</td>
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</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
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<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 700</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Advanced Composition</td>
<td>3</td>
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</tbody>
</table>

Recommended Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 420</td>
<td>Advanced Computing and Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Electives must be chosen in accordance with the needs of the individual candidate and with the advice and consent of the advisor or major professor.

Additional Requirements

Thesis
The candidate for the Master of Music degree must complete one of the following:

- A composition of significant breadth will serve as the thesis for the MM in Music Theory and Composition. It may be for large or chamber ensemble with or without electronic component or for the electronic medium alone. Completion of the thesis must include its public performance. If the thesis composition is written for a large university ensemble (orchestra, wind ensemble, choir) a hearing of a single rehearsal of the entire composition will suffice.
- A research project which shall be either a paper or a theoretical program evidencing both a capacity for research and originality in creative analysis or computer composition application evidencing both research capabilities and analytical insight.

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Theatre

The Theatre Department’s mission is to educate students in the practice and study of theatre and to encourage students’ creative and critical development. It supports the application of theatre skills in lasting, strong, and meaningful ways throughout their lives.

Our urban setting provides access to a thriving professional arts community with opportunities to engage with the region’s many cultural groups and institutions through service learning, internships, and fieldwork. These experiences support students interested in developing as artists, educators, and scholars and by actively encouraging them to be theatre makers.

The Theatre Department offers a Bachelor of Fine Arts in Theatre and a Bachelor of Arts in Theatre Practices. We also offer a Theatre Minor.

Degree Programs

The Bachelor of Fine Arts (BFA) in Theatre offers two tracks: Performance and Production. Performance majors focus on either Acting or Musical Theatre. Production majors explore a broad curriculum in Costuming, Stage Management, Technical Production, and Design.
The Bachelor of Arts in Theatre Practices (BA) offers two tracks: Theatre Practices and K-12 Theatre Education. Theatre Practices focuses on playwriting, performing and devising new works, directing, community engaged practices, theatre and social justice, and dramaturgy. The BA administers the Arts and Social Entrepreneurship Certificate (A&SE) program (p. 233). BA students also have an opportunity to earn a Cultures and Communities (C&C) Certificate (p. 829). The Theatre Education track in the BA is a professional program that leads to a Wisconsin Theatre Educator license.

Theatre study, in all degree programs within the department, begins with a common core of course experiences designed to provide learning opportunities encouraging participants to engage with theatre as a way of seeing, understanding, and communicating culture.

Capstone
All programs and tracks in all undergraduate programs within the Theatre Department require a capstone experience. The capstone serves as a laboratory for students and provides a framework for application of developing skills and knowledge. Depending on semester, program, or project, capstones are executed and evaluated within the following courses:

### BA in Theatre Practices Degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 465</td>
<td>Theatre Capstone: BA Theatre Practices</td>
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<tr>
<td>THEATRE 472</td>
<td>Performance Capstone</td>
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<tr>
<td>THEATRE 485</td>
<td>Elementary Level Student Teaching in Theatre</td>
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<tr>
<td>THEATRE 486</td>
<td>Secondary Student Teaching in Theatre</td>
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</table>

### BFA Acting Degree

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>THEATRE 571</td>
<td>Acting 6</td>
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### BFA Musical Theatre Degree

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 472</td>
<td>Performance Capstone</td>
<td>2-4</td>
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</table>

### BFA Production Degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>THEATRE 675</td>
<td>Advanced Studio</td>
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</tr>
<tr>
<td>or THEATRE 685</td>
<td>Internship in Professional Theatre</td>
<td></td>
</tr>
</tbody>
</table>

Capstone evaluations are used to assess student outcomes and program goals.

### Programs

- Arts and Social Entrepreneurship, Undergraduate Certificate (p. 233)
- Theatre Practices, BA (p. 234)
- Theatre Practices, BA: Theatre Education (p. 237)
- Theatre Teaching Certification, Minor (p. 241)
- Theatre, BFA: Performance (p. 241)
- Theatre, BFA: Production (p. 246)
- Theatre, Minor (p. 249)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Jessica Berlin</td>
<td>Senior Lecturer</td>
<td>MBA</td>
<td>Alverno College</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Corey Collins</td>
<td>Lecturer</td>
<td>MFA</td>
<td>Wayne State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christopher Guse</td>
<td>Associate Prof.</td>
<td>BFA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rebecca Holderness</td>
<td>Professor</td>
<td>MFA</td>
<td>Columbia University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Ralph Janes</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of California-San Diego</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Raeleen McMillion</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>Ohio University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robin Mello</td>
<td>Professor</td>
<td>PhD</td>
<td>Lesley University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Sheri Williams Pannell</td>
<td>Assistant Prof.</td>
<td>MFA</td>
<td>University of Wisconsin-Madison</td>
<td></td>
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</tr>
<tr>
<td>Corliss E. Phillabaum</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Alvaro Saar Rios</td>
<td>Associate Prof.</td>
<td>MFA</td>
<td>Northwestern University</td>
<td></td>
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</tr>
<tr>
<td>Dana Rochester</td>
<td>Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin-Milwaukee</td>
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<td></td>
</tr>
<tr>
<td>LeRoy Stoner</td>
<td>Associate Prof., ex-Chair</td>
<td>MA</td>
<td>Indiana University</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Sandra Strawn</td>
<td>Professor</td>
<td>BSE</td>
<td>Emporia State University</td>
<td></td>
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<tr>
<td>James Tasse</td>
<td>Senior Lecturer</td>
<td>BFA</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>William Watson</td>
<td>Associate Prof.</td>
<td>MFA</td>
<td>University of Washington</td>
<td></td>
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<tr>
<td>Stephen White</td>
<td>Assistant Prof.</td>
<td>MFA</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Arts and Social Entrepreneurship, Undergraduate Certificate

Use your skills as an artist to find sustainable solutions to our biggest social challenges - in education, the environment, or community health - among others. Understand the latest in business-based, non-profit structures; the latest in audience and community engagement; and the latest in community teaching methods. Become part of a generation of artists who are leaders in their communities as they strive to make meaningful social change.
Artists in all fields can be catalysts for community change and invaluable team members for community-based organizations or partnerships of organizations in collective action. This certificate prepares students with arts training in all disciplines (film, creative writing, visual art, theatre, music and dance) for careers in community and civic leadership at non-profits or governmental agencies.

Students will learn:

- the importance of communication and empathy across differences in culture, age, and ability;
- visual, oral and written storytelling to inspire social change;
- asset-based community development;
- partnership building;
- theories of change and leadership;
- sustainable, non-profit business models; and
- the unique role of artists in community development.

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundation Courses</strong></td>
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<tr>
<td>ART 150</td>
<td>Multicultural America</td>
<td>9</td>
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<tr>
<td>or FILM 150</td>
<td>Multicultural America</td>
<td></td>
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<tr>
<td>or THEATRE 150</td>
<td>Multicultural America</td>
<td></td>
</tr>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td></td>
</tr>
<tr>
<td>or ED POL 612</td>
<td>Community Participation and Power</td>
<td></td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneur</td>
<td></td>
</tr>
<tr>
<td><strong>Capstone</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART ED 227</td>
<td>Introduction to Art Education</td>
<td></td>
</tr>
<tr>
<td>ART 306</td>
<td>Introduction to Community Art</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 292</td>
<td>Introduction to Entrepreneurship and Small Business Formation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 293</td>
<td>Business Ethics &amp; Social Responsibility</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 492</td>
<td>Business Modeling of New Ventures</td>
<td></td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
<td></td>
</tr>
<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 234</td>
<td>Writing Fiction: Structure and Technique</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 235</td>
<td>Writing Poetry: Forms, Styles, Voices</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 236</td>
<td>Introductory Topics in Creative Writing:</td>
<td></td>
</tr>
<tr>
<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics</td>
<td></td>
</tr>
<tr>
<td>FILM 319</td>
<td>Film Genres: (Radical Film)</td>
<td></td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Documentary Project)</td>
<td></td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Documentary Project)</td>
<td></td>
</tr>
<tr>
<td>FILM 460</td>
<td>Advanced Media Arts Module: (Ethnographic Film)</td>
<td></td>
</tr>
<tr>
<td>MUSIC 310</td>
<td>Introduction to World Musics</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

### Advising

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday  
*(closed on university holidays)*  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

### Theatre Practices, BA

The Bachelor of Arts (BA) in Theatre Practices supports engaged theatre practice that meets the social and cultural challenges of our twenty-first century society.

Our innovative curriculum invites students to begin by building core theatre skills, then gradually applying them to a range of projects, settings, and populations. This culminates in in-depth application of these skills through internships, community placements and a Capstone. The BA in Theatre Practice supports a professional track for students seeking a Wisconsin Theatre Teaching license in K-12 Theatre Education. It also offers students the option to earn a Cultures and Communities (C&C) certificate (p. 829) and is the home of the Arts and Social Entrepreneurship (A&SE) Certificate Program (p. 233).

The BA in Theatre Practice engages students in focusing their study on educational and social justice theatre, devising and performing new work, storytelling, dramaturgy, directing, playwriting, and arts and social entrepreneurship. For more information please see: [uwm.edu/arts/theatre/ba/](http://uwm.edu/arts/theatre/ba/)
Requirements
The minimum degree requirement is 120 credits. BA Theatre Practices Degree requirements are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Theatre Department Core</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>BA Track Requirements and Electives</td>
<td></td>
<td>43</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

Bachelor of Arts in Theatre Practices Curriculum
The minimum number of credits required to complete the Bachelor of Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits. BA Theatre majors are required to fulfill the department’s core, maintain a 2.75 GPA in the major, and earn a C grade or better in all Theatre Core courses.

BA Theatre students execute a capstone course project as a culminating demonstration of their learning. All capstones are evaluated through a presentation of research and/or portfolio process. Students also have an option to earn a Cultures and Communities (C&C) certificate (p. 829) and/or an Arts and Social Entrepreneurship (A&SE) certificate (p. 233).

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication – Part A and Part B 2,3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B 2,3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language 2,3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities 4</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (Must include one lab) 5</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences 6</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity 2,7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Credits in Peck School of the Arts 8,9</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>University Credits (outside of Theatre) 10</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

1 Learn more about the General Education Requirements (p. ).
2 Credits may be utilized in required curriculum areas.
3 Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.
4 If earning the C&C certificate, 3 credits must be an Area 2 C&C approved course.
5 If earning the C&C certificate, 3 credits must be an Area 5 C&C approved course.
6 If earning the C&C certificate, 3 credits must be an Area 3 or Area 5 C&C approved course.
7 If earning the C&C certificate, take THEATRE 150 to fulfill this requirement. If earning the A&SE certificate, take any 150 course in PSOA, outside of Theatre.
8 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
9 If earning the C&C or A&SE certificate, only 9 total credits are required. For the C&C certificate, 3 credits must be an Area 4 C&C approved course.
10 If earning the A&SE certificate, take ED POL 111 or ED POL 112.

BA Theatre Practices Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 218</td>
<td>Computer Modeling and Graphics for Live Performance</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 359</td>
<td>Playwriting</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following capstone experiences: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 150</td>
<td>Multicultural America:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 324</td>
<td>Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre</td>
<td></td>
</tr>
<tr>
<td>THEATRE 325</td>
<td>History of Costume</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 330</td>
<td>Acting Topics:</td>
<td></td>
</tr>
<tr>
<td>THEATRE 360</td>
<td>Theatre Practices: (Must take minimum of 3 cr; may repeat three times for a maximum of 6 cr)</td>
<td></td>
</tr>
</tbody>
</table>
Theatre Practices, BA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 465</td>
<td>Theatre Capstone: BA Theatre Practices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Must take minimum of 3 cr; may repeat once)</td>
<td></td>
</tr>
<tr>
<td>THEATRE 472</td>
<td>Performance Capstone: BA Theatre Practices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Must take minimum of 3 cr; may repeat once)</td>
<td></td>
</tr>
<tr>
<td>Select 16-20 credits of electives</td>
<td>16-20</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>40-47</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Electives**

Electives are chosen in consideration of a student’s interests and in consultation with a departmental advisor. The following are examples of popular BA electives (non-required courses) in the major. Students are encouraged to choose other Theatre courses such as those offered in the Production and Performance tracks, which are not listed here.

**BA Theatre: Example of Required Courses in 4-Year Plan**

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 110</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 225</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td>6</td>
</tr>
<tr>
<td>Credits</td>
<td>16</td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 213</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 225</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td>6</td>
</tr>
<tr>
<td>Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 236</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 225</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td>6</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 204</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>3</td>
</tr>
<tr>
<td>PSU Core</td>
<td>9</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
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</tbody>
</table>

**BA Required Choice Elective**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 304</td>
<td>Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 318</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 323</td>
<td>Special Topics in World Theatre:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 324</td>
<td>Theatre in the Americas: Latin American, Caribbean,</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and Latinx Theatre</td>
<td></td>
</tr>
<tr>
<td>THEATRE 325</td>
<td>History of Costume</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 330</td>
<td>Acting Topics:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 357</td>
<td>Digital Audio Workstations for Stage and Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

**Application Process**

Admission to The BA in Theatre Practices degree is based on acceptance to the university. At that time, students are required to take part in a placement interview with a BA faculty advisor, which helps determine the choice of electives, including what practices and areas of interest a student wishes to focus on.

**Advance to Major/Retention**

To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation
inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 225</td>
<td>Costume Construction</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
<td>3</td>
</tr>
</tbody>
</table>

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

**Continuation**

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.

**Advising**

**Location:** Theatre 120  
**Reception Hours:** 9AM-4PM Monday through Friday (closed on university holidays)  
**Contact:** (414) 229-4763

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For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

**Honors in the Major**

Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Theatre Practices, BA: Theatre Education**

The BA in Theatre Practices - Theatre Education supports a professional track for students seeking a Wisconsin Theatre Teaching license in K-12 Theatre (WI DPI License #1325). The BA Theatre Ed. engages students in focusing their study on educational and social justice theatre, devising and performing new work, storytelling, dramaturgy, directing, playwriting, and arts and social entrepreneurship.

Our innovative curriculum invites students to begin by building core theatre skills, then gradually applying them to a range of projects, settings, and populations. This culminates in in-depth application of these skills through internships, community placements and a Capstone of Semester - Long Student Teaching. It also offers students the option to earn a Cultures and Communities (C&C) certificate (p. 829) and the Arts and Social Entrepreneurship (A&SE) Certificate (p. 233).

For more information please see: [https://uwm.edu/arts/theatre/theatre-education/](https://uwm.edu/arts/theatre/theatre-education/)

**Requirements**

BA in Theatre Education Program Requirements are distributed as follows:

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

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**Theatre Practices, BA: Theatre Education**

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For more information please see: [https://uwm.edu/arts/theatre/theatre-education/](https://uwm.edu/arts/theatre/theatre-education/)

**Requirements**

BA in Theatre Education Program Requirements are distributed as follows:
Bachelor of Arts in Theatre Education Licensure Program

The BA Theatre Education Program (Theatre Education) is a track within the BA in Theatre Practices degree program. It is a 120-credit degree that prepares urban theatre teachers for teaching in grades PK4-12.

Admission and Continuation Requirements: Students are typically admitted into Theatre Education in their Senior year of High School. Student may also apply to the Theatre Education program while majoring in another Theatre degree program. Students may also apply to transfer into the program from within UWM or from other higher education programs as well. Once accepted to the university, candidates apply to the program through the PSOA portal.

All Theatre Education students must maintain a 2.75 cumulative grade point average (within general University courses) and a 3.0 within the major to be in good standing and continue in the program.

All student candidates must take and pass the Praxis II Theatre Content Test, or pass a Portfolio equivalent (as determined by the program), and have successfully completed the Communication and Foreign Language Competencies, Oral and Written Communication (OWC) parts A and B, and Quantitative Literacy (QL) parts A and B, prior to being approved for student teaching.

Communications Requirement: Students interested in pursuing a professional education teaching credential must take a communications course. At UWM theatre students are required to take THEATRE 260.

Human Relations Requirement: The Human Relations Requirement provides prospective theatre teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and service-learning opportunities. Effective July 1, 1992, and pursuant to 1987 Wisconsin Act 31, a license to teach may be granted when "the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state." Currently, this requirement is met through satisfactory completion and a passing grade in one of the following courses: AIS 203, HIST 263, ANTHRO 213, or ENGLISH 276 (with the special topic "Literature, History, and Sovereignty of Upper Midwest Indians"), or Wisconsin Act 31 seminar attendance. Questions regarding this requirement should be directed to the student’s academic advisor.

Fieldwork and Student Teaching: A passing score on the Praxis II Theatre Content Test, clear criminal background check, and negative TB test, along with an application of intent are required prior to working in public schools and student teaching.

Teaching Portfolio: Pursuant to WI statutes and regulations, Theatre Education requires that students compile an externally reviewed teaching portfolio (EdTPA) that demonstrates teaching proficiency in their area of expertise. They also must submit an exit portfolio, administered internally by the Theatre Education program, demonstrating proficiency in WI teaching standards.

Application for WI #1325 Theatre Teacher License: In keeping with DPI requirements, Theatre Education students must have a 2.75 cumulative grade point average within the general University and 3.0 in the major to be approved to apply for a teaching license after graduation. Following admission to Theatre Education and successful completion of the specified course of study (see below) a student seeking recommendation for teacher licensure must successfully fulfill the following:

1. Fulfill all degree requirements;
2. Fulfill the Field Experience Requirement (embedded in course work within the program);
3. Demonstrate at least a 2.75 cumulative GPA and a 3.0 within the major;
4. Pass the Praxis II Theatre Content Exam or the portfolio equivalent;
5. Successfully complete student teaching;
6. Successfully complete an EdTPA portfolio;
7. Successfully demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of theatre education through the submission of an initial-professional educator-portfolio, which is assessed by program faculty (as per DPI requirement);
8. Pass all teacher evaluations/tests required by the State of Wisconsin.

BA Theatre Education Requirements

The minimum number of credits required to complete the Bachelor of Arts in Theatre Education is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits. BA Theatre majors are required to fulfill the department’s core, maintain a 2.75 GPA in the major, and earn a C grade or better in all Theatre Core courses.

BA Theatre students execute a capstone course project as a culminating demonstration of their learning. K-12 Theatre Education students complete their capstone experience through student teaching. All capstones and student teaching are evaluated through a presentation of research and/or portfolio process.

Theatre Education track prepares students to be urban educators in Wisconsin classrooms, grades K-12. They are expected to earn a 2.5 GPA overall and a 3.5 GPA within the major, and earn a C grade or better in all Theatre Core courses. On successful completion of all degree requirements, Theatre Education students are recommended for #1325 Theatre licensure in the State of Wisconsin. For more information please see: uwm.edu/arts/theatre/theatre-education (http://uwm.edu/arts/theatre/theatre-education/).

University Core

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>University Core Curriculum</td>
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<tr>
<td>Theatre Department Core</td>
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<tr>
<td>BA Theatre Education Track Requirements</td>
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General Education Requirements

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<tr>
<td>Competencies 1</td>
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<td>Oral and Written Communication – Part A and Part B 2,3</td>
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<td>Quantitative Literacy (QL) – Part A and Part B 2,3</td>
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<td>Foreign Language 2,3</td>
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<td>Humanities</td>
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<td>6</td>
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<td>Natural Sciences (Must include one lab)</td>
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<td>Social Sciences</td>
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Additional Electives

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<td>University Core Curriculum</td>
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<td>45</td>
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<tr>
<td>Theatre Department Core</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>BA Theatre Education Track Requirements</td>
<td></td>
<td>43</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>
Credits in Peck School of the Arts 5
University Credits (outside of Theatre) 6
Total Credits 45

1 Learn more about the General Education Requirements (p. ).
2 Credits may be utilized in required curriculum areas.
3 Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.
4 Must be met by one of the following ACT 31 approved courses: AIS 203, ANTHRO 213, HIST 263 or ENGLISH 276 with the special topic: "Literature, History, and Sovereignty of Upper Midwest Indians".
5 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Theatre Department Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
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</tr>
<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
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<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
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</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling</td>
<td></td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 225</td>
<td>Costume Construction (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
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<tr>
<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
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Total Credits 32

Theatre Education Track Requirements and Electives

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<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
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<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle,</td>
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<tr>
<td>or CURRINS 343</td>
<td>Junior, and Senior High School</td>
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<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
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<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators:</td>
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<tr>
<td>or EXCEDUC 605</td>
<td>Humanities, the Arts, Foreign Language</td>
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<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change (if not taken</td>
<td>3</td>
</tr>
<tr>
<td>or previously)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
<td>3</td>
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<tr>
<td>THEATRE 359</td>
<td>Playwriting</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 360</td>
<td>Theatre Practices: (with the special topic</td>
<td>4</td>
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<tr>
<td>or THEATRE 225</td>
<td>&quot;TYA&quot;; must take 4 times for 4 credits</td>
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<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
<td>3</td>
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<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 473</td>
<td>Theatre in Elementary Education</td>
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<tr>
<td>THEATRE 474</td>
<td>Theatre in Secondary Education</td>
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<td>THEATRE 484</td>
<td>Field Work in Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 485</td>
<td>Elementary Level Student Teaching in</td>
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<tr>
<td>Theatre</td>
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<tr>
<td>THEATRE 486</td>
<td>Secondary Student Teaching in Theatre</td>
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</table>

Total Credits 43

1 Can be completed as part of the University Core.
2 Satisfies the DPI Communication requirement.

Theatre Education: Example of Required Courses in 4-Year Plan

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
</tr>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft or THEATRE 225</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
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<td>University Core</td>
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Total Credits 16

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<thead>
<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
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<tr>
<td>THEATRE 260</td>
<td>Storytelling: (subtitle)</td>
</tr>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft or THEATRE 225</td>
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<td>University Core</td>
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</table>

Total Credits 16

Year 2

<table>
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<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
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<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
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<tr>
<td>University Core</td>
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Total Credits 15

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
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<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
</tr>
<tr>
<td>THEATRE 359</td>
<td>Playwriting</td>
</tr>
<tr>
<td>THEATRE 360</td>
<td>Theatre Practices:</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
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Total Credits 16

Year 3

<table>
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<tr>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 322</td>
<td>Theatre: Modern and Contemporary Period</td>
</tr>
<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
</tr>
<tr>
<td>THEATRE 473</td>
<td>Theatre in Elementary Education</td>
</tr>
<tr>
<td>THEATRE 360</td>
<td>Theatre Practices:</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle,</td>
</tr>
<tr>
<td>or THEATRE 225</td>
<td>Junior, and Senior High School</td>
</tr>
<tr>
<td>University Core</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 16
As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

Continuation

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday
(closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/. (http://uwm.edu/arts/advising/)

Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Theatre Teaching Certification, Minor

As of Fall 2017, the Theatre Education Minor has suspended admission. This means that unless you have been accepted into this program prior to Fall 2017, you will not be able to earn the minor. The following information is provided solely for the benefit of students accepted into the program prior to Fall 2017.

The Theatre Department offers a teaching minor leading to a DPI #325 license. This program is open either as an “add-on” license for students pursuing, and accepted into, an education or teaching major in an appropriately related field (e.g., English, Social Studies, MCEA) or teachers who already have a State of Wisconsin teaching license in one of the subjects listed above.

Requirements

Admission

Admission requirements for a Theatre Education minor are the same as those of a major (see Theatre Education admission requirements): Students accepted into the program will be expected to participate in an interview, pass the Praxis I and II Tests prior to admission to the program, their fieldwork, and student teaching (THEATRE 484, THEATRE 485, and THEATRE 486). Additionally, students evaluated as lacking in theatre content information, skills, or knowledge will be required to take more than the minimum 21 credits listed here; each individual student’s appropriateness, requirements, and their course(s) of study will be determined by the Theatre Education Program Director. Minimum Required Courses for Theatre Education Minor:

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<tr>
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<th>Credits</th>
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<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
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<tr>
<td>THEATRE 260</td>
<td>Storytelling:</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 204</td>
<td>Theatre and Social Change</td>
<td></td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
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<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
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<tr>
<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
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Required Methods and Practice

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<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
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</tr>
<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 473</td>
<td>Theatre in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>THEATRE 474</td>
<td>Theatre in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 484</td>
<td>Field Work in Theatre</td>
<td>1-3</td>
</tr>
<tr>
<td>THEATRE 485</td>
<td>Elementary Level Student Teaching in Theatre</td>
<td>2-6</td>
</tr>
<tr>
<td>THEATRE 486</td>
<td>Secondary Student Teaching in Theatre</td>
<td>2-6</td>
</tr>
</tbody>
</table>

Advising

Location: Theatre 120

Reception Hours: 9AM-4PM Monday through Friday (closed on university holidays)

Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Theatre, BFA: Performance

The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks:

- Performance
  - The Performance BFA has two 130-credit tracks in either Acting or Musical Theatre.
- Production
  - The Production BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature. The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists in production studios, rehearsal halls, and backstage.

The specialized tracks in the BFA build on the objectives of the department’s core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists. Students must continue to show artistic growth and progress and meet academic grade requirements (see Requirements tab) to continue in the program. Admission to each BFA track is selective and progress reviews are
conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

- **BFA Acting**: The program builds on the objectives of the department's core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice. To help students develop as complete artists, our program emphasizes an understanding of essential acting theories, principles of voice production, flexible speech techniques, physical communication, physical structures of character, principles of Dramatic Action and Storytelling, and personal artistic practice. Research specific to an actor's work, objective and subjective/art/ affective, is demonstrated as a core principle to artistic development. Students are guided through the process of self critique to gain the ability to prescribe solutions and/or new directions for artistic development, and gain an understanding of professional modes of behavior, preparation, and competency.

- **BFA Musical Theatre**: Combining three major performing disciplines, Music, Dance, and Theatre, this program trains students to succeed as versatile performing artists. Our students annually perform in carefully chosen musical productions essential to pre-professional training, and hone a range of practical and creative skills consistent with their professional and personal goals. Students will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles), dance (history of the musical theatre art form, ballet, tap, jazz, and theatre dance), and theatre (acting, play analysis, and theatre production).

- **BFA Production**: Our multi-faceted Theatre Production program trains students to be competitive in a variety of fields, including technical production, stage management and design, costume production, and more. Offering professional training experiences as early as Freshman year, our students go on to work in a variety of related industry careers. The Production BFA utilizes the foundation of theatre to explore the uniquely collaborative artistic and artisanal processes that create and support compelling storytelling in live performance. The program allows for specialization in the areas of costumes, lighting, properties, scenery, sound/video and stage management but is flexible enough for cross disciplinary studies tailored to the student's specific interests.

### Requirements

#### University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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<tr>
<td></td>
<td><strong>Competencies</strong></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
<td>2,3</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td>2,3</td>
</tr>
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<td></td>
<td>Foreign Language</td>
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<td><strong>Distribution Requirements</strong></td>
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<td></td>
<td>Humanities</td>
<td>6</td>
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<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
</tr>
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<td></td>
<td>Social Sciences</td>
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<td>Cultural Diversity</td>
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<td></td>
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<td>4</td>
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<tr>
<td></td>
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</table>

Total Credits | 45 |

1. Learn more about the General Education Requirements (p. 1).
2. Credits may be utilized in required curriculum areas.
3. Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.
4. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

### Acting Track

#### Theatre Department Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
<td>3</td>
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<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
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</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 225</td>
<td>Costume Construction (with lab)</td>
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</table>

Total Credits | 19 |

### Acting Track Requirements and Electives

<table>
<thead>
<tr>
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<tr>
<td>THEATRE 430</td>
<td>Stage Voice and Speech 1</td>
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<td>THEATRE 431</td>
<td>Stage Voice and Speech 2</td>
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<tr>
<td>THEATRE 440</td>
<td>Physical Performance 1</td>
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<td>THEATRE 463</td>
<td>Master Class in Professional Theatre Study</td>
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<td>THEATRE 470</td>
<td>Acting Technique 3</td>
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<td>THEATRE 471</td>
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<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance: (2-3 cr as assigned; repeatable)</td>
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<td>THEATRE 530</td>
<td>Stage Voice and Speech 3</td>
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<td>THEATRE 531</td>
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<td>THEATRE 570</td>
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<tr>
<td>THEATRE 571</td>
<td>Acting 6 (Capstone)</td>
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Total Credits | 45 |
Eiectives
Select electives as discussed with advisor 10
Total Credits 53

Musical Theatre Track
Theatre Department Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
<td>3</td>
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<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
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<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
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<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
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<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 4
- THEATRE 214 Stagecraft (with lab)
- THEATRE 225 Costume Construction (with lab)

Total Credits 19

Musical Theatre Track Requirements and Electives

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Peck School of the Arts Credits for Musical Theatre BFA Track ¹</td>
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<tr>
<td>MUSIC 244</td>
<td>Basic Diction in Singing</td>
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<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater</td>
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Choral Ensemble Select 1 credit/semester; 2 semesters
Art or Film Course
Elective in any area in PSOA
General Elective

Required

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 101</td>
<td>Fundamentals of Music</td>
<td>3</td>
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</tbody>
</table>

Select one of the following for 2 semesters: 2
- MUSPERF 1  Lessons in Piano: Fundamentals of Piano: 1
- MUSPERF 101 Lessons in Piano: 1

MUSIC 123  Aural Theory I 1
MUSIC 142  Class Voice for Musical Theater Level I 2
MUSIC 143  Class Voice for Musical Theater Level II 2
MUSPERF 111 Lessons in Voice: (enroll in and complete 2 semesters) 1
MUSPERF 311 Lessons in Voice: (enroll in and complete 2 credits/4 semesters) 2

Select 2 credits/semester for 3 semesters from the following: 6
- DANCE 111 Ballet I
- DANCE 112 Contemporary Dance Practice: Ballet Tradition II
- DANCE 211 Contemporary Dance Practice: Ballet Tradition III
- DANCE 212 Contemporary Dance Practice: Ballet Tradition IV
- DANCE 311 Contemporary Dance Practice: Ballet Tradition V
- DANCE 312 Contemporary Dance Practice: Ballet Tradition VI

Select 2 credits/semester for 3 semesters from the following: 6

Electives
Select electives in music, theatre, or dance as discussed with advisor 7
Total Credits 65

¹ Can be completed as part of the University Core.

Acting: Example of Required Courses in 4-Year Plan

Year 1

<table>
<thead>
<tr>
<th>Year</th>
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<td>Costume Construction</td>
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<td></td>
<td>THEATRE 305</td>
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<tr>
<td></td>
<td>The Theatrical Experience:</td>
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<td>Credits</td>
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<td>Spring</td>
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<td>General Education Requirements</td>
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<td></td>
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<td></td>
<td>Play Analysis</td>
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<td>THEATRE 440</td>
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<td></td>
<td>Physical Performance 1</td>
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<td></td>
<td>THEATRE 470</td>
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<tr>
<td></td>
<td>Acting Technique 3</td>
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<td>THEATRE 441</td>
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<td></td>
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<td>General Education Requirements</td>
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### Musical Theatre: Example of Required Courses in 4-Year Plan

#### Year 1

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<th>Semester</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>DANCE 111 Ballet I 2</td>
</tr>
<tr>
<td></td>
<td>MUSIC 142 Class Voice for Musical Theater Level I 2</td>
</tr>
<tr>
<td></td>
<td>MUSIC XXX Choral Ensemble 1</td>
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<tr>
<td></td>
<td>MUSPERF 1 Fundamentals of Piano: 1</td>
</tr>
<tr>
<td></td>
<td>or MUSPERF 101 Fundamentals of Piano: 1</td>
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<td></td>
<td>or MUSPERF 101 Fundamentals of Piano: 1</td>
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<tr>
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<td>THEATRE 110 Fundamentals of the Actor’s Process 3</td>
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<td>THEATRE 214 Stagecraft 4</td>
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<td>or THEATRE 225 Stagecraft 4</td>
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<table>
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<tbody>
<tr>
<td><strong>Spring</strong></td>
<td>DANCE 111 Ballet I 2</td>
</tr>
<tr>
<td></td>
<td>or DANCE 112 Ballet I 2</td>
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<tr>
<td></td>
<td>or Contemporary Dance Practice: Ballet Tradition II 2</td>
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<tr>
<td></td>
<td>MUSIC 143 Class Voice for Music Theatre Level II 2</td>
</tr>
<tr>
<td></td>
<td>MUSIC 101 Fundamentals of Music 3</td>
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<tr>
<td></td>
<td>THEATRE 230 Acting 2: Text and Performance 3</td>
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<td></td>
<td>MUSIC XXX Choral Ensemble 1</td>
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<td>MUSPERF 1 Fundamentals of Piano: 1</td>
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<td></td>
<td>or MUSPERF 101 Fundamentals of Piano: 1</td>
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<td>or MUSPERF 101 Fundamentals of Piano: 1</td>
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<tr>
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<td>University Core General University Requirement 3</td>
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#### Year 2

<table>
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<td>DANCE 111 Ballet I 2</td>
</tr>
<tr>
<td></td>
<td>or DANCE 112 Ballet I 2</td>
</tr>
<tr>
<td></td>
<td>or Contemporary Dance Practice: Ballet Tradition II 2</td>
</tr>
<tr>
<td></td>
<td>MUSPERF 111 Lessons in Voice: 1</td>
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<td><strong>Credits</strong></td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tr>
<td><strong>Spring</strong></td>
<td>DANCE 111 Jazz Dance I 2</td>
</tr>
<tr>
<td></td>
<td>or DANCE 112 Jazz Dance II 2</td>
</tr>
<tr>
<td></td>
<td>or Contemporary Dance Practice: Ballet Tradition II 2</td>
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<tr>
<td></td>
<td>MUSIC 143 Class Voice for Music Theatre Level II 2</td>
</tr>
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<td>MUSIC 101 Fundamentals of Music 3</td>
</tr>
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<td>THEATRE 230 Acting 2: Text and Performance 3</td>
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<td>MUSIC XXX Choral Ensemble 1</td>
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#### Year 3

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<td>THEATRE 232 Performing Arts Management 3</td>
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<td>University Core Required Elective 3</td>
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<td>PSUO Core Required Elective 9</td>
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<th>Semester</th>
<th>Courses</th>
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<tbody>
<tr>
<td><strong>Spring</strong></td>
<td>THEATRE 232 The Theatre: Modern and Contemporary Period 3</td>
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<td>THEATRE 475 Rehearsal and Performance: 2</td>
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<td>University Core Required Elective 3</td>
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<td></td>
<td>PSUO Core Required Elective 3</td>
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<tr>
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<td>Theatre Electives Degree Electives 4</td>
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#### Year 4

<table>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>DANCE 231 History of the American Musical Theater (OWC-B required course) 3</td>
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<tr>
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<td>DANCE 115 Jazz Dance I 2</td>
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<td></td>
<td>or DANCE 116 Jazz Dance II 2</td>
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<tr>
<td></td>
<td>DANCE 117 Tap I 2</td>
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<td>MUSPERF 311 Lessons in Voice: 2</td>
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<td>THEATRE 231 Voice and Speech for Effective Communication 3</td>
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<td>THEATRE 470 Acting Technique 3 3</td>
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<td>Elective (Related Elective) 2</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tbody>
<tr>
<td><strong>Spring</strong></td>
<td>DANCE 115 Jazz Dance I 2</td>
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<td>or DANCE 116 Jazz Dance II 2</td>
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<td>MUSIC 457 Opera Theatre 3</td>
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<td>DANCE 490 Repertoire and Ensemble 3</td>
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<td>PSUO Elective Art or Film Course 3</td>
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<tr>
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<td>THEATRE 236 Theatre Production and Design 3</td>
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<td>THEATRE 321 The Theatre: Beginnings Through Realism 3</td>
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<td></td>
<td>THEATRE 213 Play Analysis 3</td>
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<td>MUSIC 123 Aural Theory I 1</td>
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<td>University Core General University Requirement 3</td>
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<td>THEATRE 236 Theatre Production and Design 3</td>
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<th>Courses</th>
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<tr>
<td><strong>Spring</strong></td>
<td>DANCE 231 The Theatre: Beginnings Through Realism 3</td>
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<td>THEATRE 213 Play Analysis 3</td>
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<td>MUSIC 123 Aural Theory I 1</td>
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<td>University Core General University Requirement 3</td>
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<tr>
<td></td>
<td>THEATRE 236 Theatre Production and Design 3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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</tbody>
</table>

### Credits

- **Total Credits**: 124
Advance to Major/Retention

To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
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<td>THEATRE 213</td>
<td>Play Analysis</td>
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<td>THEATRE 225</td>
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<td>Acting 2: Text and Performance</td>
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<tr>
<td>THEATRE 260</td>
<td>Storytelling:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Reality</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
<td>3</td>
</tr>
</tbody>
</table>

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

Continuation

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.

Application Process

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BFA program applicants must submit the following:

1. A separate application form; New (http://uw.edu/arts/apply/)
2. A statement of purpose;
3. A current resume;
4. Copies of high school or appropriate college transcripts (for transfer students). [Unofficial copies are acceptable for departmental purposes.]
5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes or sent electronically directly from the recommender and will remain confidential and the property of UWM; and
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Acceptance into the BFA in Musical Theatre requires a successful audition and application packet prior to beginning in the theatre major, either as an incoming freshman or transfer student. Acceptance into the BFA in Acting requires a successful audition and application that may be made either prior to entering the major as an incoming freshman or transfer student or at the completion of the first year (freshman) Theatre Core sequence.

Additional Musical Theatre Entrance Requirements

Some required courses of the Musical Theatre Track have placement-level testing. As part of the Musical Theatre entrance audition, students take Piano and Theory Placement Exams to determine in which level of piano and music theory to enroll.

- **Piano:** Depending on audition results, a student may be required to enroll in MUSPERF 1 for two semesters. Proficiency for these courses requires a passing grade of B or better. If piano proficiency can be demonstrated through the Piano Placement Exam, then two semesters of piano lessons at the MUSPERF 101 level are required.
• **Theory:** Depending on exam results, a student may be required to enroll in MUSIC 101, or test into MUSIC 123 with 3 additional credits available toward electives. Proficiency for these courses requires a passing grade of C or better.

**End-of-Semester Review Process**

BFA Theatre faculty will assess students' academic and artistic growth through individual conferences at the end of each semester.

**Student Evaluation**

All BFA Theatre majors who do not demonstrate a consistent level of artistic and academic improvement, have and maintain a 2.5 GPA overall, and maintain at least a 3.0 GPA in their program may not advance, may be placed on probation, and/or dropped from the program.

**Appeal Process**

Any BFA Theatre major who is dropped from the program has the right to appeal. The appeals committee will consist of two full-time, tenured or tenure track faculty, from the Peck School of the Arts, a faculty member of the student's own choosing, and the faculty member who oversees the specific degree track. In addition, a Peck School of the Arts Student Services advisor will be present as a non-voting member. Outcome(s) of the appeal will be given to the student in writing and in a timely manner.

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Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

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**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.50 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.50 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Theatre, BFA: Production**

The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks:

- **Performance**  
  - The **Performance** BFA has two 130-credit tracks in either Acting or Musical Theatre.

- **Production**  
  - The **Production** BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature. The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists in production studios, rehearsal halls, and backstage.

The specialized tracks in the BFA build on the objectives of the department’s core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists. Students must continue to show artistic growth and progress and meet academic grade requirements (see Requirements tab) to continue in the program. Admission to each BFA track is selective and progress reviews are conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

- **BFA Acting:** The program builds on the objectives of the department’s core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for
advanced graduate study in performance or entry into the profession of theatre practice. To help students develop as complete artists, our program emphasizes an understanding of essential acting theories, principles of voice production, flexible speech techniques, physical communication, physical structures of character, principles of Dramatic Action and Storytelling, and personal artistic practice. Research specific to an actor’s work, objective and subjective/affective, is demonstrated as a core principle to artistic development. Students are guided through the process of self critique to gain the ability to prescribe solutions and/or new directions for artistic development, and gain an understanding of professional modes of behavior, preparation, and competency.

• **BFA Musical Theatre:** Combining three major performing disciplines, Music, Dance, and Theatre, this program trains students to succeed as versatile performing artists. Our students annually perform in carefully chosen musical productions essential to pre-professional training, and hone a range of practical and creative skills consistent with their professional and personal goals. Students will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles), dance (history of the musical theatre art form, ballet, tap, jazz, and theatre dance), and theatre (acting, play analysis, and theatre production).

• **BFA Production:** Our multi-faceted Theatre Production program trains students to be competitive in a variety of fields, including technical production, stage management and design, costume production, and more. Offering professional training experiences as early as Freshman year, our students go on to work in a variety of related industry careers. The Production BFA utilizes the foundation of theatre to explore the uniquely collaborative artistic and artisanal processes that create and support compelling storytelling in live performance. The program allows for specialization in the areas of costumes, lighting, properties, scenery, sound/video and stage management but is flexible enough for cross disciplinary studies tailored to the student’s specific interests.

### Requirements

#### University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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</tr>
<tr>
<td></td>
<td>Competencies 1</td>
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</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B 2,3</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B 2,3</td>
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<tr>
<td></td>
<td>Foreign Language 2,3</td>
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<td></td>
<td><strong>Distribution Requirements</strong> 1</td>
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</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
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</tr>
<tr>
<td></td>
<td>Additional Electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Credits in Peck School of the Arts 4</td>
<td>12</td>
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<td></td>
<td>University Credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>45</td>
</tr>
</tbody>
</table>

The minimum number of credits required to complete the Bachelor of Fine Arts in Production is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

#### Theatre Department Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THEATRE 110 Fundamentals of the Actor’s Process</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 101 Acting for Non-majors</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 204 Theatre and Social Change</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 260 Storytelling:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THEATRE 230 Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 213 Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 214 Stagecraft (with lab)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>THEATRE 225 Costume Construction (with lab)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>THEATRE 236 Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 275 Performing Arts Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 305 The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 321 The Theatre: Beginnings Through Realism</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 322 The Theatre: Modern and Contemporary Period</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>32</td>
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</tbody>
</table>

#### BFA Production Track Requirements and Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THEATRE 412 Career Preparation and Development</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>THEATRE 575 Studio (4 credit per semester, repeatable)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>THEATRE 475 Rehearsal and Performance: (variable credit by assignment)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THEATRE 675 Advanced Studio (repeatable)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>THEATRE 685 Internship in Professional Theatre (variable credit)</td>
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</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 29 elective credits</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>43</td>
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</tbody>
</table>
Electives
Select from within the Production Curriculum, outside the Production Curriculum, or any other courses in PSOA in consultation with your advisor.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Within the Production Curriculum</strong></td>
<td></td>
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<tr>
<td>THEATRE 215</td>
<td>Properties Production</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 218</td>
<td>Computer Modeling and Graphics for Live Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Make-Up</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 285</td>
<td>Costume Construction 2</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 301</td>
<td>Theatrical Millinery</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 304</td>
<td>Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 314</td>
<td>Special Effects for Stage Scenery</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 315</td>
<td>Advanced Properties Production</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 318</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 319</td>
<td>Scenic Painting</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 325</td>
<td>History of Costume</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 327</td>
<td>The Digital Theatre - Pocket Tech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 337</td>
<td>Sound Production and Digital Editing for Stage and Studio</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 338</td>
<td>Lighting Production</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 343</td>
<td>Patternmaking and Draping</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 380</td>
<td>Stage Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 418</td>
<td>Lighting Studio</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 432</td>
<td>Advanced Theatre Practicum</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 435</td>
<td>Production Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 437</td>
<td>Sound Design and Digital Editing</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 480</td>
<td>Leadership Skills for Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 675</td>
<td>Advanced Studio (repeat to 12 cr.)</td>
<td>1-6</td>
</tr>
<tr>
<td>THEATRE 689</td>
<td>Independent Study-Stage Management</td>
<td>1-4</td>
</tr>
<tr>
<td>THEATRE 692</td>
<td>Independent Study-Technical Theatre, Scene Design and Lighting</td>
<td>1-4</td>
</tr>
<tr>
<td>THEATRE 693</td>
<td>Independent Study-Costumes</td>
<td>1-4</td>
</tr>
<tr>
<td>THEATRE 698</td>
<td>Independent Study-Theatre, Management and Public Relations</td>
<td>1-4</td>
</tr>
<tr>
<td>THEATRE 699</td>
<td>Independent Study</td>
<td>1-4</td>
</tr>
<tr>
<td></td>
<td><strong>Outside the Production Curriculum</strong></td>
<td></td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Voice and Speech for Effective Communication</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 407</td>
<td>Contemporary Theatre Performance:</td>
<td>1-3</td>
</tr>
<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 497</td>
<td>Study Abroad in Theatre</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Advance to Major/Retention
To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

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For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)

**Honors in the Major**

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Theatre, Minor**

The Theatre Minor study supports active learning thorough participation in theatre processes and practices. The Theatre Minor also focuses on creativity and communication skills within the dramatic and theatrical arts. It is extremely relevant to other areas of academic study across the University.

**Requirements**

**Code** | **Title** | **Credits**
--- | --- | ---
**Required**
Select one of the following theatre-literacy courses: | | 3
THEATRE 100 | Introduction to the Theatre | 
THEATRE 213 | Play Analysis | 

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/)
The Theatrical Experience:  
Select one of the following production/management courses: 3
THEATRE 236 Theatre Production and Design
or THEATRE 275 Performing Arts Management

Select one of the following performance courses: 3
THEATRE 101 Acting for Non-majors
THEATRE 111 Theatre Games
THEATRE 204 Theatre and Social Change
THEATRE 260 Storytelling:

Electives
Select 9 Theatre elective credits 1

Total Credits 18

1 Students are required to take at least 6 credits at the 300 level or above. Students should work with their Theatre advisor to choose which courses meet individual interests and needs.

Theatre Electives

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>THEATRE 100</td>
<td>Introduction to the Theatre (if not already taken)</td>
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<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors (if not already taken)</td>
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<tr>
<td>or THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
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<td>THEATRE 111</td>
<td>Theatre Games (if not already taken)</td>
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<td>THEATRE 120</td>
<td>Performance and Popular Culture</td>
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<td>THEATRE 202</td>
<td>Theatre Practicum</td>
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<td>THEATRE 204</td>
<td>Theatre and Social Change (if not already taken)</td>
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<tr>
<td>THEATRE 213</td>
<td>Play Analysis (if not already taken)</td>
<td>3</td>
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<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
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<td>THEATRE 215</td>
<td>Properties Production</td>
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<td>THEATRE 218</td>
<td>Computer Modeling and Graphics for Live Performance</td>
<td>3</td>
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<td>THEATRE 224</td>
<td>Make-Up</td>
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<td>THEATRE 225</td>
<td>Costume Construction</td>
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<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
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<td>THEATRE 231</td>
<td>Voice and Speech for Effective Communication</td>
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<td>THEATRE 236</td>
<td>Theatre Production and Design (if not already taken)</td>
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<td>THEATRE 260</td>
<td>Storytelling: (if not already taken)</td>
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<td>THEATRE 275</td>
<td>Performing Arts Management (if not already taken)</td>
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<td>THEATRE 304</td>
<td>Costume Design</td>
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<td>THEATRE 305</td>
<td>The Theatrical Experience: (if not already taken)</td>
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<td>THEATRE 311</td>
<td>Advanced Improvisation</td>
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<td>THEATRE 318</td>
<td>Scene Design</td>
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<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
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<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
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<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
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THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre 3
THEATRE 325 History of Costume 3
THEATRE 330 Acting Topics: 3
THEATRE 337 Sound Production and Digital Editing for Stage and Studio 3
THEATRE 338 Lighting Production 3
THEATRE 359 Playwriting 3
THEATRE 380 Stage Management 3
THEATRE 407 Contemporary Theatre Performance: 1-3
THEATRE 410 Stage Directing 3
THEATRE 418 Lighting Studio 3
THEATRE 437 Sound Design and Digital Editing 3
THEATRE 448 How to be a Teaching Artist 3
THEATRE 475 Rehearsal and Performance: 2-3
THEATRE 497 Study Abroad in Theatre 1-12

1 Minor cannot include both THEATRE 101 and THEATRE 110.

Advising

Location: Theatre 120
Reception Hours: 9AM-4PM Monday through Friday
(closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/. (http://uwm.edu/arts/advising/)
BUSINESS (SHELDON B. LUBAR SCHOOL OF)

The UWM Sheldon B. Lubar School of Business is a major metropolitan business school committed to academic excellence. Because of its metropolitan location, the School offers several advantages. Milwaukee-area firms provide an exciting, real-world laboratory for students to gain valuable insights and skills in their chosen professional fields as well as providing part-time or full-time employment opportunities. Students can also gain practical work experience by participating in internship programs. Business leaders from the community participate in School activities, both in the classroom and on the School’s advisory councils.

High-quality management education that incorporates state-of-the-art technology is delivered to a diverse group of graduate and undergraduate students and practicing executives and professionals. We address the professional development and lifelong learning needs of individuals.

Through scholarly research, we advance knowledge pertaining to management decision making and practice and further enrich our teaching effectiveness.

Our undergraduate degree programs provide students with a career foundation leading to managerial advancement and/or entrepreneurial careers.

Our master’s degree programs prepare students to assume general management or functional specialist positions, with potential for senior-level leadership positions or entrepreneurial careers.

Our doctoral degree programs prepare students for research and teaching careers in higher education and research careers in industry.

Our executive education programs provide customized problem solving for organizations.

We also employ our professional skills in service to the School, University, scholarly and professional organizations, and the regional business community. We capitalize on the diversified resources of the Metropolitan Milwaukee business community and use them as a living laboratory to enrich our scholarly and instructional pursuits.

AACSB Accreditation

The Lubar School of Business has been continuously accredited by AACSB International for over 45 years. Why is this important? Because business schools accredited by AACSB International are considered to be the best business schools in the world — in fact, only 5% of business schools worldwide have this distinction. AACSB-accredited schools have tougher quality standards for programs and faculty, better students with higher overall GPAs, more employers that recruit from them, and graduates that receive higher salaries.

In addition, the Lubar School of Business accounting programs are separately accredited by AACSB. Lubar School of Business is one of only three accounting schools in the state, and one of 193 schools in the world, with this status.

Programs

Undergraduate

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• Accounting, BBA: Data Analysis (p. 257)
• Business of Media and Film Studies, Undergraduate Certificate (Lubar School of Business) (p. 270)
• Business Scholars Program (p. 271)
• Enterprise Resource Planning, Undergraduate Certificate (p. 272)
• Entrepreneurship, Undergraduate Certificate (p. 273)
• Finance, BBA (p. 274)
• General Business, Minor (p. 277)
• Global Studies, BA: Global Management (p. 278)
• Human Resources Management, BBA (p. 279)
• Information Technology Management, BBA (p. 282)
• International Business, Undergraduate Certificate (p. 286)
• Investment Management, Undergraduate Certificate (p. 287)
• Marketing, BBA (p. 296)
• Real Estate, Undergraduate Certificate (p. 305)
• Supply Chain and Operations Management, BBA (p. 305)
• Technology Entrepreneurship, Undergraduate Certificate (p. 310)

Graduate

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• Business Administration, MBA: Business Analytics (p. 264)
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• Investment Management, Graduate Certificate (p. 286)
• Management Science, PhD (p. 288)
• Management, MS: Accounting (p. 289)
• Management, MS: Finance Analysis (p. 291)
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• Management, MS: Taxation (p. 295)
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• Nonprofit Management, Graduate Certificate (Lubar School of Business) (p. 300)
• Public Administration, MPA (Lubar School of Business) (p. 301)
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• Public Administration, MPA/Urban Planning, MUP (p. 304)
• Taxation, Graduate Certificate (p. 308)
• Technology Entrepreneurship, Graduate Certificate (p. 309)

Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

Auditing Graduate Courses
BUS ADM and BUSMGMT 700+ courses must be completed on a graded basis; graduate courses are not available for completion as an audit.

Undergraduate Program Options
Double Majors
BBA students may pursue a double major in a second area of the Lubar School of Business. The double major can be declared in Lubar Hall N297; the advising staff in Undergraduate Student Services will explain this option and discuss the additional curriculum required.

Joint Degree Program
A student who plans to pursue a joint degree business program with another UWM college or school should seek advising early to design an appropriate program. The student must concurrently complete all requirements for the degree in the area other than the Lubar School of Business, as well as the requirements in the Lubar School of Business, as indicated below in the requirements for a second bachelor’s degree. A student electing to pursue a joint degree should submit a proposed program of study to the Lubar School of Business as soon as possible.

Second Bachelor’s Degree
A student with an accredited bachelor’s degree may work toward a second bachelor’s degree in the Lubar School of Business. Interested students should contact the academic advisors in Room N297 of Lubar Hall for further details. The second bachelor degree program is not offered in Accounting.

Degree requirements include completion of these BBA requirements:
• functional courses
• administrative analysis and techniques courses
• a professional major, and
• mathematics and economics courses.

Of these, at least 30 credits must be earned in residence at UWM while classified as a second-degree candidate. Students may receive credit towards a second bachelor’s degree for coursework taken in equivalent areas at other institutions. However, at least 50% of the business credit hours required for the business degree must be completed at UWM.

Business Special Student Options
Business Special Student status is available to applicants who have earned a baccalaureate degree at an accredited university or college. Also eligible for consideration are students needing coursework to complete a degree from another accredited institution, students in an international exchange program, or students who were admitted to UWM as a University Special Student with the ultimate goal of becoming degree-seeking in a business major. Business Special Students are eligible to take undergraduate courses only.

An official degree transcript of all university work, along with a statement of goals and objectives as a special student with a listing of requested courses, should be submitted directly to the Lubar School of Business Undergraduate Student Services (Room N297, Lubar Hall, uwmbba@uwm.edu).

Applications are reviewed weekly. Applicants without a degree who wish to take Lubar coursework in order to graduate from another institution must also submit a statement from their advisor, on official letterhead or via email, verifying the circumstances and course(s) required.

Post-baccalaureate Opportunities
Students who have completed a BBA degree at UWM can return to the campus and complete an additional business major. Students who have completed a bachelor’s degree in business at another accredited university can earn a Certificate of Major in the School. The Certificate of Major consists of a minimum of 12 UWM degree credits. The additional major option is not available in accounting.

Academic Regulations
For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Policies (p. 22).

Student Academic Appeals
Students may appeal an academic action to the appropriate curriculum committee. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted electronically to Lubar Undergraduate Student Services. Undergraduate student appeals are reviewed by the School's Undergraduate Program Committee’s Appeals Subcommittee. Students are advised in writing of the decision of the Committee. The Appeals Subcommittee considers individual cases concerning the degree requirements and other academic rules and regulations established by the Lubar School of Business faculty.

The Lubar School of Business has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Student Services Center. As a first step, students must discuss the grievance with the faculty member or administrator within 30 working days from the date of the action that prompted the grievance.

Faculty

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<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Larry Abbott</td>
<td>Associate Professor</td>
<td>PhD, CPA</td>
<td>University of Oregon</td>
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<tr>
<td>Layth C. Alwayn</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
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<tr>
<td>Grace Ambrose</td>
<td>Lecturer</td>
<td>PhD</td>
<td>Southern Illinois, Carbondale</td>
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<td>Esther Ancel</td>
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<td>Patricia J. Arnold</td>
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<td>Bruce A. Bender</td>
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<td>State University of New York at Buffalo</td>
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<td>Colleen Boland</td>
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<td>Zheng Cheng</td>
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<tr>
<td>Tailan Chi</td>
<td>Notebaert Distinguished Professor of International Business &amp; Global Studies</td>
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<tr>
<td>Stanislav D. Dobrev</td>
<td>Professor, Robert L. and Sally S. Manegold Chair in Strategic Management</td>
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<td>Stanford University</td>
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<td>Katherine Du</td>
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<tr>
<td>Sanjoy Ghose</td>
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<td>Maria Goranova</td>
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<td>John Healy</td>
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<td>Ross Hightower</td>
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<tr>
<td>Janice Miller</td>
<td>Professor and Senior Associate Dean</td>
<td>Northwestern University</td>
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<tr>
<td>Derek L. Nazareth</td>
<td>Associate Professor</td>
<td>Case Western Reserve University</td>
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</tr>
<tr>
<td>Daniel Neely</td>
<td>Associate Professor</td>
<td>The University of Houston</td>
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<tr>
<td>Paul C. Nystrom</td>
<td>Professor</td>
<td>Northwestern University</td>
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<tr>
<td>Purushottam Papatla</td>
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<tr>
<td>Laura A. Peracchio</td>
<td>Judith H. &amp; Gale R. Klappa Endowed Professor of Marketing</td>
<td>Northwestern University</td>
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<tr>
<td>V. Kanti Prasad</td>
<td>Bostrom Professor of Entrepreneurship and Dean</td>
<td>Michigan State University</td>
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</tr>
<tr>
<td>Belle R. Ragins</td>
<td>Sheldon B. Lubar Professor for Management</td>
<td>University of Tennessee at Knoxville</td>
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<tr>
<td>Keshavamurthy Ramamurthy</td>
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<tr>
<td>Tracy Rank-Christman</td>
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<tr>
<td>Jude Rathburn</td>
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<tr>
<td>Raymond Rausch</td>
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<tr>
<td>Will Rayms</td>
<td>Professor</td>
<td>Pennsylvania State University</td>
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<tr>
<td>Hong Ren</td>
<td>Associate Professor</td>
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<tr>
<td>Joseph Retzer</td>
<td>Lecturer</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Jonathan Saffold</td>
<td>Lecturer</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Eric Schenker</td>
<td>Professor</td>
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<tr>
<td>Sol S. Shalit</td>
<td>Associate Professor</td>
<td>Purdue University</td>
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<tr>
<td>Valeri Sibilkov</td>
<td>Hans G. Storr Associate Professor of Finance</td>
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</tr>
<tr>
<td>Romila Singh</td>
<td>Associate Professor</td>
<td>Drexel University</td>
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</tr>
<tr>
<td>Atish Sinha</td>
<td>Professor</td>
<td>University of Pittsburgh</td>
<td></td>
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<tr>
<td>Timothy L. Smunt</td>
<td>Professor</td>
<td>Indiana University</td>
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</tr>
<tr>
<td>Ehsan S. Soofi</td>
<td>UW-Milwaukee Distinguished Professor</td>
<td>University of California, Riverside</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>G. Kevin Spellman</td>
<td>Senior Lecturer</td>
<td>Durham University</td>
<td></td>
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</tr>
<tr>
<td>Mark Srite</td>
<td>Associate Professor</td>
<td>Florida State University</td>
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</tr>
<tr>
<td>Laura Swenson</td>
<td>Assistant Professor</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>William J. Taylor</td>
<td>Associate Professor</td>
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<tr>
<td>Amy Tegeler</td>
<td>Assistant Professor</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Steven Trick</td>
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<tr>
<td>Sheila Viel</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Yang Wang</td>
<td>Assistant Professor</td>
<td>University of Utah</td>
<td></td>
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<tr>
<td>C. Edward Weber</td>
<td>Professor</td>
<td></td>
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<tr>
<td>Zuhui Xiao</td>
<td>Assistant Professor</td>
<td>University of Minnesota Carlson School</td>
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<tr>
<td>Xiaojing Yang</td>
<td>Associate Professor</td>
<td>Indiana University</td>
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</tr>
<tr>
<td>Ting Yao</td>
<td>Assistant Professor</td>
<td>University of North Carolina-Chapel Hill</td>
<td></td>
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</tr>
<tr>
<td>Xiaohang Yue</td>
<td>Professor</td>
<td>University of Texas at Dallas</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Fatemeh (Mariam) Zahedi</td>
<td>UW-Milwaukee Distinguished DBA Professor and Church Mutual Insurance Faculty Scholar in ITM Professor</td>
<td>Indiana University</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Huimin Zhao</td>
<td>Professor</td>
<td>University of Arizona</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Contact Information**

**Student Services Center**

Lubar Hall, N297
Accounting, BBA

Accountants gather, organize and analyze financial information. Accountants assess performance and efficiency and suggest improvements for their employers and clients. They are needed in Certified Public Accounting (CPA) firms and corporations, as well as nonprofit organizations. Advancements in technology, evolving accounting rules and regulations, and rapid globalization promise abundant and interesting career opportunities to those with strong quantitative abilities.

Accounting graduates who take positions in public accounting firms provide management consulting, tax, and audit services to external clients. Other accounting graduates, who take positions with industry and not-for-profit organizations, work as part of the management team providing information for decision support, taxation issues and performance evaluation.

Lubar School of Business accounting programs are separately accredited by the AACSB (one of only three accounting accredited schools in Wisconsin). Graduates meet the legal requirements to take the CPA Exam in Wisconsin. However, 150 credits of education are required to obtain the CPA license in Wisconsin. Many BBA Accounting graduates apply, are accepted, and enroll in the Lubar School of Business Master of Science in Management-Professional Accounting (MS-PA) program to prepare for the CPA exam and meet the 150 credits for licensure.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Advancement to Major (p. 255)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education Requirements (p. 255)</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Business Foundation Courses (p. 256)</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Business Core (p. 256)</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Accounting Major Requirements (p. 256)</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Business Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
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<td></td>
<td>Total Credits</td>
<td>120</td>
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</table>

**Advancement to the Major**

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Attain Junior standing (56 credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or obtain a high enough score on the English Placement Test, ACT-English, or SAT-ERW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete the Business Foundation Courses</td>
<td></td>
</tr>
</tbody>
</table>

With a cumulative GPA of 2.25 or above

**Achieve a cumulative GPA of 2.50 or higher**

Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar School of Business

**Achieve a cumulative UWM GPA of 2.00 or higher**

Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.

**Complete the Advancement to the Major form**

Available in the Undergraduate Student Services office or online

**Lubar School of Business General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 205 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following (QL-A):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following (QL-B):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 208 Quantitative Models for Business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 211 Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
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<tr>
<td></td>
<td>Humanities</td>
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</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>4</td>
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<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
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<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
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</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>24</td>
</tr>
</tbody>
</table>

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.
Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

Excluding MATH 211, MATH 221, or MATH 231.

### Business Foundation Courses
Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 21

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 271) should enroll in the equivalent BUS ADM 207 course.

2 A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 271) should consider the equivalent BUS ADM 231 course.

3 Or equivalent to MATH 208 or MATH 211.

### Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BUS ADM 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics</td>
<td>4</td>
</tr>
<tr>
<td>or BUS ADM 211</td>
<td>Business Scholars: Statistical Modeling in Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 331</td>
<td>Business Scholars: Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 361</td>
<td>Business Scholars: Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 371</td>
<td>Business Scholars: Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
<td>3</td>
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<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
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</table>

**International Business Component**
Complete one of the following:

<table>
<thead>
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<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>3</td>
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<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td>3</td>
</tr>
</tbody>
</table>

### Accounting Major Requirements
A minimum 3.0 cumulative GPA, completion of MATH 208 or MATH 211, BUS ADM 230 or BUS ADM 231, a grade of B or better in BUS ADM 201 or BUS ADM 207, and completion of BUS ADM 202 are required to enroll in BUS ADM 301. A grade of B or better in BUS ADM 301 is required to enroll in BUS ADM 402, BUS ADM 404, and BUS ADM 409.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS ADM 301</td>
<td>Intermediate Accounting</td>
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</tr>
<tr>
<td>BUS ADM 303</td>
<td>Career Planning for Accounting</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 402</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 404</td>
<td>Cost Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 405</td>
<td>Income Tax Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 406</td>
<td>Income Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 408</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 409</td>
<td>Auditing: Procedures and Applications</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 410</td>
<td>Accountants’ Ethical Responsibilities</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 24

### Business Electives
A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 9 credits in the Lubar School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.</td>
<td>9</td>
</tr>
</tbody>
</table>

### General Electives
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
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</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language credits</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 14
Degree Completion Requirements

Credits
A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average
Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements
A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options
The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar School's Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.

Double Majors
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

Career Services
The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Honors in the Lubar School of Business
Beta Gamma Sigma (http://uwm.edu/business/organizations/) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 271).

Dean's Honor List
GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Accounting, BBA: Data Analysis
Accountants gather, organize and analyze financial information. Advancements in technology, evolving accounting rules and regulations, and rapid globalization promise abundant and interesting career opportunities to those with strong quantitative abilities. In response to the rapidly changing environment, this degree is tailored to develop supplemental skills in Information Technology and analyzing data.

Accounting-Data Analysis graduates seek employment in a variety of positions in public accounting firms, industry, and not-for-profits. For public accounting firms, these graduates may find employment in either the traditional assurance track or the more IT-oriented risk advisory track. In either case, these graduates will analyze large, client-prepared datasets to accomplish audit objectives for their assigned audit team. In an industry employment position, the graduates will work as part of the management team providing information for decision support, taxation issues and performance evaluation. This accounting track specifically develops skills in Information Technology to enable graduates to utilize data analysis and visualization in these tasks.

Lubar School of Business accounting programs are separately accredited by the AACSB (one of only three accounting accredited schools in Wisconsin). Accounting graduates meet the legal requirements to take the CPA Exam in Wisconsin; however, 150 credits of education are required to obtain the CPA license in Wisconsin. Many BBA Accounting-Data Analysis graduates apply, are accepted, and enroll in the Lubar School of Business Master of Science in Management-Professional Accounting (MS-PA).
program to complete the credits necessary to prepare for the CPA exam and meet the 150 credits for licensure.

## Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 258)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 258)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 258)</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Business Core (p. 259)</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Accounting Major Requirements (p. 259)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Data Analysis Requirements (p. 259)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

### Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain Junior standing (56 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Or obtain a high enough score on the English Placement Test, ACT-English, or SAT-ERW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a cumulative GPA of 2.50 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar School of Business</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a cumulative UWM GPA of 2.00 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Advancement to the Major form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available in the Undergraduate Student Services office or online</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following (QL-A):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following (QL-B):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Arts

Select 3 credits

### Humanities

Select 6 credits

### Social Sciences

Select 6 credits

### Natural Sciences

Select 6 credits (At least two courses including one lab)

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

### Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credits

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

4 Excluding MATH 211, MATH 221, or MATH 231.

### Notes

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 271) should enroll in the equivalent BUS ADM 207 course.
A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 271) should consider the equivalent BUS ADM 231 course.

### Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics</td>
<td>4</td>
</tr>
<tr>
<td>or BUS ADM 211</td>
<td>Business Scholars: Statistical Modeling in Business Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 331</td>
<td>Business Scholars: Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 361</td>
<td>Business Scholars: Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 371</td>
<td>Business Scholars: Introduction to Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### International Business Component

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
<td>3</td>
</tr>
</tbody>
</table>

### Accounting Major Requirements

A minimum 3.0 cumulative GPA, completion of MATH 208 or MATH 211, BUS ADM 230 or BUS ADM 231, a grade of B or better in BUS ADM 201 or BUS ADM 207, and completion of BUS ADM 202 are required to enroll in BUS ADM 301. A grade of B or better in BUS ADM 301 is required to enroll in BUS ADM 402, BUS ADM 404, and BUS ADM 409.

### Data Analysis Requirements

In addition to the Accounting Major Requirements, a minimum grade of 'B' is required in both BUS ADM 335 and BUS ADM 434 in the Accounting, BBA: Data Analysis program.

### General Electives

Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 335</td>
<td>Visual System Development</td>
<td>6</td>
</tr>
<tr>
<td>BUS ADM 434</td>
<td>Data Base Management Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 436</td>
<td>Systems Analysis and Design</td>
<td>6</td>
</tr>
<tr>
<td>BUS ADM 438</td>
<td>Information Technology Management Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 536</td>
<td>Business Intelligence</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues</td>
<td></td>
</tr>
</tbody>
</table>

### Degree Completion Requirements

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major
within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options
The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubars School’s Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.

Double Majors
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

Career Services
The Lubars School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

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See also information on the Business Scholars Program (p. 271).

Dean’s Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
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Commencement Honors
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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Business Administration, MBA
The Lubars School of Business Master of Business Administration (MBA) provides the specialized business skills needed to meet an individual’s career goals. Lubars offers a major metropolitan learning laboratory where dynamic individuals, applied project work, and superb business connections translate into a rewarding life-long career.

Faculty are connected to leading-edge business knowledge using real-world business challenges. There is an emphasis on critical and analytical thinking, collaboration with fellow students, and networking with successful executives and professional inside and outside the classroom.

Lubars School of Business offers a full array of MBA programs to meet professional needs:

• MBA-Flexible Format with the opportunity to specialize in one of six Career-Focused Concentrations (Business Analytics, (p. 264) Entrepreneurship (p. 265), Finance (p. 265), Health Care Management (p. 266), Marketing (p. 267), and Supply Chain Management (p. 268)).
• MBA-Co20 providing the opportunity to fast-track MBA program completion in a 20-month cohort option.
• Executive MBA aimed at seasoned managers who will leverage their professional experience while broadening management knowledge in a cohort experience. The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

Admission Requirements

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets,
presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses
The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 15 elective credits ²

Total Credits 33-39

¹ Integrating course
² Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/ms-in-information-technology-management/ for additional details.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses
MBA Foundation Coursework
MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT or GRE, or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers.

Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

ITM Foundation Courses
Students admitted to the MS in ITM program are expected to have knowledge or experience in programming.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management ²</td>
<td>3</td>
</tr>
</tbody>
</table>

Required MBA Program Core ¹

Required M.S. in Information Technology Management (ITM)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 748</td>
<td>Managing Information Technology Projects (capstone course)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses ³

Total Credits 48-51

¹ Students with a BBA degree and a major in accounting, finance, marketing, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study.
² Integrating course.
³ Please refer to http://uwm.edu/business/academics/graduate/ms-in-information-technology-management/ for a comprehensive listing of elective courses.

Business Administration, MBA/Information Technology Management, MS
For practitioners seeking to blend the depth and rigor of the STEM-designated MS in ITM curriculum with the managerial skills developed in a traditional MBA, Lubar School of Business offers the combined MBA-MS in ITM degree. This comprehensive program positions graduates for leadership advancement within organizations through an extensive IT and general management curriculum.
Business Administration, MBA/Nursing Practice, DNP

The Lubar School of Business and the University of Wisconsin-Milwaukee College of Nursing collaboratively offer a program designed to provide a combined nursing and business curriculum to strengthen the graduate's performance as a leader and manager in nursing and health care administration.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Students are admitted to both the University of Wisconsin-Milwaukee graduate programs in nursing and business administration. The admission requirements are consistent with those specified by the UWM Graduate School, College of Nursing and Lubar School of Business. Applicants may choose to complete either the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) and must have a BS in Nursing degree and at least two years' practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

Credits and Courses

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires Bus Adm 701, Business Mathematics (2 cr), and Bus Adm 703, Financial Accounting (3 cr). Bus Adm 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) or have passed the proficiency exam. Bus Adm 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. Bus Adm 701 and Bus Adm 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for Bus Adm 701, 703, and IT.

For the coordinated degree program, students will complete 83 credit hours. A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td></td>
</tr>
<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
<td></td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td></td>
</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td></td>
</tr>
<tr>
<td>NURS 770</td>
<td>Nursing Administration</td>
<td></td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td></td>
</tr>
<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 826</td>
<td>Nurse Executive Practicum I</td>
<td></td>
</tr>
<tr>
<td>NURS 827</td>
<td>Nurse Executive Practicum II</td>
<td></td>
</tr>
<tr>
<td>NURS 828</td>
<td>Nurse Executive Practicum III</td>
<td></td>
</tr>
<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
<td></td>
</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
<td></td>
</tr>
<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion</td>
<td></td>
</tr>
</tbody>
</table>

MBA Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
</tbody>
</table>

Dually Applied

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
<td></td>
</tr>
</tbody>
</table>

Constrained Choice

Choose two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 727</td>
<td>Health Care Accounting, Law and Ethics</td>
<td></td>
</tr>
<tr>
<td>NURS 711</td>
<td>Economics of Health Care and Health Care Systems</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 83

1 Integrating course for the coordinated degree program.

Additional Requirements

A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree. Students must fulfill the MBA Program Boot Camp and Executive Development activities to meet all graduation requirements.

DNP Project

The candidate will complete a final comprehensive clinical project as part of the leadership practice immersion experience, which demonstrates
the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the DNP project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

**Time Limit**

Students in the coordinated MBA/DNP degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

### Business Administration, MBA/Translation and Interpreting Studies, MA

The College of Letters and Science and Lubar School of Business collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving language services industry theory and practices, and to provide high level management and administrative skills needed to work in business, industry, governmental, and nonprofit organizations.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Translation and Interpreting Studies MA of the College of Letters and Science, and the MBA program of the Lubar School of Business.

### Credit and Courses

The total credits for the Coordinated Translation and Interpreting Studies/MBA program is 54. Students accepted into the Translation and Interpreting Studies/MBA program complete the following courses:

<table>
<thead>
<tr>
<th>Translation and Interpreting Studies</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Professional Translation Credits</td>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation (language-specific)</td>
<td>3</td>
</tr>
<tr>
<td>Required Non-Language specific courses</td>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>or TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or BUSMGMT 729</td>
<td>MBA Internship</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Language-specific courses (two courses in same language pair)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 704 &amp; TRNSLTN 714 Introduction to Translation: Arabic to English</td>
<td>6</td>
</tr>
<tr>
<td>&amp; Advanced Translation: Arabic to English</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 706 &amp; TRNSLTN 716 Introduction to Translation: French to English</td>
<td></td>
</tr>
<tr>
<td>&amp; Seminar in Advanced Translation: French to English</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 707 &amp; TRNSLTN 717 Introduction to Translation: Spanish to English</td>
<td></td>
</tr>
<tr>
<td>&amp; Seminar in Advanced Translation: Spanish to English</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 708 &amp; TRNSLTN 718 Introduction to Translation: German to English</td>
<td></td>
</tr>
<tr>
<td>&amp; Seminar in Advanced German Translation</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 719 &amp; TRNSLTN 729 Introduction to Translation: Russian to English</td>
<td></td>
</tr>
<tr>
<td>&amp; Seminar in Advanced Translation: Russian to English</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comprehensive Exam</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Master of Business Administration</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management (capstone)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses.

<table>
<thead>
<tr>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
</tr>
</tbody>
</table>

### Additional Requirements

The 54 credits for the coordinated program typically would be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program to receive a degree.

**Time Limit**

Students in the coordinated degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
Business Administration, MBA: Business Analytics

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Students complete the Business Analytics concentration courses online, while having the option to complete the remaining MBA course requirements face-to-face or online.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses
The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp;</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 15 elective credits 2

Total Credits 33-39

1. Integrating course
2. Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Business Analytics Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
<td>15</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 763</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 769</td>
<td>Database Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 795</td>
<td>Seminar-in-Management: (Ideas &amp; Applications of Data Science in Different Fields)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 744</td>
<td>R Programming for Business Analytics *</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 718</td>
<td>Introduction to SAS Programming *</td>
<td></td>
</tr>
</tbody>
</table>

* Student may complete no more than one programming course.

Additional Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
Business Administration, MBA: Entrepreneurship

Designed especially for students who need scheduling options, the Lubar School’s Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines)/.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
   2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
</tbody>
</table>

Entrepreneurship Concentration

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 546</td>
<td>Global Innovation Management</td>
<td>6</td>
</tr>
<tr>
<td>BUSMGMT 713</td>
<td>Entrepreneurship: Venture Creation and Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives - Choose three courses from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 544</td>
<td>New Product Development</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 762</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 765</td>
<td>Strategic Product and Brand Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 799</td>
<td>Reading and Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 852</td>
<td>Venture Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 729</td>
<td>MBA Internship</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor
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Business Administration, MBA: Finance

Designed especially for students who need scheduling options, the Lubar School’s Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

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2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses
The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

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<tbody>
<tr>
<td>BUSMGMT 704</td>
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<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
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<td>Marketing Strategy: Concepts and Practice</td>
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<tr>
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<td>Predictive Analytics for Managers</td>
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<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 15 elective credits

Total Credits: 33-39

1. Integrating course
2. Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Finance Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 771</td>
<td>Investments</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 772</td>
<td>Portfolio Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 775</td>
<td>Financial Strategy</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 778</td>
<td>Financial Institutions and Markets</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 774</td>
<td>Global Financial Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 779</td>
<td>Fixed Income Securities</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.

Business Administration, MBA: Health Care Management

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:
1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).

2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

### Health Care Management Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td></td>
</tr>
<tr>
<td>BUSADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 727</td>
<td>Health Care Accounting, Law and Ethics</td>
<td></td>
</tr>
</tbody>
</table>

1. Health Care Management students are required to complete BUSMGMT 720 in lieu of BUSMGMT 712 as the capstone course for the MBA program. An additional 3 elective credits will replace BUSMGMT 712.

### Additional Requirements

#### Major Professor as Advisor

The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.

### Business Administration, MBA: Marketing

Designed especially for students who need scheduling options, the Lubar School’s Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/)

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**See [http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/](http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/) for additional details.**
# Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

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<td>Predictive Analytics for Managers</td>
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<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
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</tr>
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</table>

**Electives**

Select 15 elective credits

Total Credits: 33-39

1. Integrating course
2. Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/ flexible-mba/ for additional details.

## Additional Requirements

### Major Professor as Advisor

The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.

### Business Administration, MBA: Supply Chain Management

Designed especially for students who need scheduling options, the Lubar School’s Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/ graduateschool/admission/) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
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MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

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<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management ¹</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 15 elective credits ²  15

Total Credits 33-39

¹ Integrating course
² Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Supply Chain Management Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 781</td>
<td>Enabling Supply Chains Using SAP</td>
<td>15</td>
</tr>
<tr>
<td>BUS ADM 782</td>
<td>Supply Chain Technology and Simulation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 783</td>
<td>Supply Chain Management</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor

The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.

Business Analytics, Graduate Certificate

The Online Graduate Certificate in Business Analytics is designed for students who desire a sequence of graduate-level courses that focus specifically on Business Analytics and that are delivered through an online instructional environment.

Business analytics—the management, analysis, and utilization of data in strategic, operational, and tactical decision making—is increasingly critical as businesses around the world seek out new areas of competitive advantage. In recent years, CIOs have identified analytics and business intelligence as top priorities for the competitiveness of their enterprises.

Lubar School of Business faculty use a vast array of business analytics software tools—including Business Objects, Excel Data Mining Client, Python, R, SAP BW, SAS, SPSS, SQL Server BI Development Studio—and other outstanding technologies and resources to deliver this program online to a worldwide audience. The curriculum includes predictive modeling, forecasting methods, data warehousing and data mining, web mining and analytics, marketing analytics, and customer relationship management.

Students who complete this certificate will gain a substantial competitive edge in pursuing a career as a business analytics manager, business intelligence consultant, business analytics systems analyst, business analytics solution architect, business intelligence specialist, business intelligence analyst, business intelligence developer, BI & reporting manager, data mining/reporting analyst, marketing analytics consultant, or online marketing analytics manager.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Business Analytics. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor’s degree with an overall GPA of 2.75 or better.

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted to a certificate program.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 763</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 769</td>
<td>Database Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 744</td>
<td>R Programming for Business Analytics</td>
<td>15</td>
</tr>
</tbody>
</table>

Select four courses from the list below:

- BUS ADM 713 Business Forecasting Methods
- BUS ADM 741 Web Mining and Analytics
- BUS ADM 763 Marketing Analytics
- BUS ADM 769 Database Marketing
- BUS ADM 816 Business Intelligence Technologies & Solutions
- BUSMGMT 744 R Programming for Business Analytics

Total Credits: 15

**Additional Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Business of Media and Film Studies, Undergraduate Certificate (Lubar School of Business)**

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an intermediate level Film Studies course focused on history and representational analysis, and a set of electives from Business Administration and Film Studies.

**Eligibility**

The program is open to all students seeking a bachelor’s degree from UWM, to students who previously earned a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

**Requirements**

To obtain the certificate, the student must complete, with a minimum grade point average of 2.25, a minimum of 19 credits in approved BMFS courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science, and nine credits must be taken in the Lubar School of Business. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.
### Contact Information

CRT, 417  
Phone: (414) 229-5912  
gblasini@uwm.edu

### Business Scholars Program

The Business Scholars Program allows outstanding business students to build a rich portfolio of academic, extracurricular, and professional achievements. Students will build strong business competencies as well as enhanced communication and quantitative skills. International study is encouraged through the use of two-week study abroad opportunities.

### Requirements

#### Eligibility

To be admitted to the Business Scholars Program, the following requirements must be met:

**Freshman Admission**  
Student must be a newly admitted Lubar undergraduate student.

1. Student must have a high school GPA of 3.5 or higher.  
2. Student must have an ACT composite score of 25 or better; Math sub-score of 23 or better.

**Sophomore Admission**

1. A student must complete 24 credits with an overall cumulative grade point average of 3.3 (on a 4.0 scale), including completion of MATH 208 or MATH 211 (or equivalent) with a grade of B or better, completion of ENGLISH 101 and ENGLISH 102 with a grade of B or better (or attainment of placement score of 525 or higher), and completion of ECON 103 or ECON 104 with a grade of B or better; and  
2. A student must submit an application that includes a one-page essay. The application is available online at lubar.uwm.edu/mylubar (https://uwm.edu/business-undergrad-advising/).

### Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td><strong>Required</strong></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>or BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (Business on Film)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td><strong>Electives</strong></td>
<td></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
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<tr>
<td>BUS ADM 397</td>
<td>Marketing Internship</td>
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<tr>
<td>BUS ADM 461</td>
<td>Consumer Behavior</td>
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<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
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<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar</td>
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<td>Select one of the following:</td>
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<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Cinema and Digital Culture)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society:</td>
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<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
<td></td>
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<tr>
<td>ENGLISH/FILMSTD 393</td>
<td>Entertainment Industries:</td>
<td></td>
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<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
<td></td>
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<tr>
<td><strong>Total Credits</strong></td>
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<td><strong>19</strong></td>
</tr>
</tbody>
</table>

1 Study abroad participants must complete additional coursework determined by the Scholars faculty director to receive Scholars credit for a study abroad course.

2 Theses and experiential learning projects must be approved by the Scholars faculty director.

### Continuation and Graduation Requirements

Students must maintain a cumulative UWM GPA of 3.25 or higher, complete a minimum of 23 credits of Business Scholars coursework, participate in Business Scholars activities, and meet with the Business Scholars academic advisor during the final semester before graduation to verify degree requirements are met.
Enterprise Resource Planning, Graduate Certificate

The Online Graduate Certificate in Enterprise Resource Planning is designed for students who desire a sequence of graduate-level courses that focus specifically on the Enterprise Resource Planning (ERP) area.

The growing use of ERP systems in organizations is driving the need for IT professionals with ERP competencies. The Online Graduate Certificate in ERP leverages the significant SAP expertise of faculty at the Lubar School, which is home to one of only six SAP University Competence Centers in the world.

This five-course sequence prepares students for the SAP TERP10 certification exam and includes a simulation game and instruction in the use of business intelligence tools. The certificate can be completed in less than one year.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
To obtain the certificate, a student must complete 15 credits of required coursework.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 811</td>
<td>Process and Work-Flow Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 732</td>
<td>Enterprise Resource Planning</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 733</td>
<td>Enterprise Simulation Game</td>
<td>3</td>
</tr>
</tbody>
</table>

| BUSMGMT 734   | Enterprise Resource Planning Certification (capstone) | 3 |

Total Credits: 15

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Enterprise Resource Planning, Undergraduate Certificate

The Certificate in Enterprise Resource Planning is designed for business students who desire a sequence of courses that focus specifically on the Enterprise Resource Planning (ERP) area. ERP systems are critical information systems that connect a company’s operations, including purchasing, production, sales, service, accounting, supply chain, finance and asset management, and customer/supplier relationships.

ERP certificate students will not only develop knowledge in ERP but also develop mobile ERP applications and participate in an ERP simulation game. Because the Lubar School is home to one of only six SAP
University Competence Centers in the world, Lubar faculty have extensive ERP teaching experience.

The certificate is designed for non-Information Technology Management majors. This five-course sequence prepares students for the SAP TERP 10 certification exam.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Requirements
To obtain the certificate, a Lubar School of Business non-ITM major must complete 15 credits of required coursework while fulfilling all requirements of the baccalaureate degree.

Eligibility
To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

Graduation
Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Entrepreneurship, Undergraduate Certificate
New ideas and innovation are what helps companies grow. Whether the goal is launching a new business, working for a smaller firm, or working in a large competitive company, it’s important to understand what it takes to develop an idea, product, or process in order to launch a new business or assist an existing company expand.

Lubar School of Business Entrepreneurship Certificate students gain the knowledge and skills needed to assess new business opportunities, obtain financial resources, market and start new ventures, and manage entrepreneurial endeavors for growth and profitability. As part of the certificate program, students develop a business plan and present it to faculty and entrepreneurs for feedback, providing the real flavor of what it takes to get a business off the ground.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Requirements
To obtain the certificate, the student must complete a minimum of 15 approved entrepreneurship credits while fulfilling all requirements of the baccalaureate degree. The certificate is open to all students in good standing seeking a bachelor’s degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor’s degree from UWM or any other accredited college or university. Non-business majors will be required to complete prerequisites for the required courses and electives to fulfill the requirements for this certificate.

Eligibility
To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

Graduation
Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

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Eligibility
To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

Graduation
Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

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Eligibility
To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

Graduation
Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Entrepreneurship, Undergraduate Certificate
New ideas and innovation are what helps companies grow. Whether the goal is launching a new business, working for a smaller firm, or working in a large competitive company, it’s important to understand what it takes to develop an idea, product, or process in order to launch a new business or assist an existing company expand.

Lubar School of Business Entrepreneurship Certificate students gain the knowledge and skills needed to assess new business opportunities, obtain financial resources, market and start new ventures, and manage entrepreneurial endeavors for growth and profitability. As part of the certificate program, students develop a business plan and present it to faculty and entrepreneurs for feedback, providing the real flavor of what it takes to get a business off the ground.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.
provides the flexibility needed to balance a career while pursuing an Executive MBA degree.

The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**
Applicants for the Executive MBA Program must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) and additional program standards as specified below:

- Eight or more years of professional experience preferred, including significant management experience, and nomination of the employing organizations.
- Applicants are reviewed by the Master’s Program Committee of the Lubar School of Business. The admission recommendations are based upon:
  - Academic achievement and ability to do intensive graduate-level work
  - Nature of managerial experience
  - Contribution to the varied skills of the class
  - Ability and willingness of the individual and the employer to make a 17-month commitment to the program.
  - Proof of competency in the four foundation requirement areas of financial accounting, macroeconomics, mathematics review, and team building and business communications through coursework, or through examinations as approved by the Master’s Program faculty committee. Students are also assumed to have basic proficiency in the use of word processing, spreadsheet, presentation, and Web-browsing software.

See the program website ([http://uwm.edu/business/academics/graduate/executive-mba/](http://uwm.edu/business/academics/graduate/executive-mba/)) for additional information.

**Credits and Courses**

Students admitted to the Executive MBA Program will take the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 713</td>
<td>Entrepreneurship: Venture Creation and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 714</td>
<td>Managing People and the Role of General Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 716</td>
<td>International Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 752</td>
<td>Corporate Economics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 795</td>
<td>Seminar-in-Management: ¹</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credits**: 42

¹ 6 credits to be completed, e.g. Strategy Formulation, Business Ethics, Managerial Accounting, Developing Leaders, Mergers and Acquisitions, Digital Marketing, International Business Simulation, Legal Issues, Innovation Strategy for Managers & Leaders, etc.

**Additional Requirements**

**Major Professor as Advisor**

The student in the Executive MBA Program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to the EMBA Director, Lubar N471, (414) 229-6045.

**Thesis**

Not required.

**Comprehensive Examination**

Not required.

**Finance, BBA**

The finance major provides the needed tools to work in investment management, corporate financial management, and banking. Position titles for finance majors include loan officers, mortgage review officers, stockbrokers, bond and security analysts, and ultimately, chief financial officers. Finance majors are increasingly taking and passing the Chartered Financial Analysts (CFA) examination. Thorough training in finance and related fields provides the practical and theoretical background needed to succeed in the fast-paced and fascinating world of domestic and international finance.

Whether students focus on either corporate finance or investment finance at the Lubar School, all students gain an understanding of business and economy, the functions of financial institutions and capital markets, and investment and borrowing instruments. Students learn how to use data and technology as tools to assist in making decisions by applying the understanding of financial data and analysis.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 275)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>General Education Requirements (p. 275)</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 275)</td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>Business Core (p. 275)</td>
<td></td>
<td>21-22</td>
</tr>
<tr>
<td>Finance Major Requirements (p. 276)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Business Electives</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>120-121</td>
</tr>
</tbody>
</table>
Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Attain Junior standing (56 credits)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>Oral and Written Communication requirement (Part A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete the Business Foundation Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete the Advancement to the Major form</td>
<td></td>
</tr>
</tbody>
</table>

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td></td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
</tbody>
</table>

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

1. Two years (high school) of a single foreign language
2. Two semesters (college) of a single foreign language
3. Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Total Credits 24

1. Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.
2. Excluding COMMUN 103 if used to satisfy a Foundation course requirement.
3. Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.
4. Excluding MATH 211, MATH 221, or MATH 231.

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

1. A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 271) should enroll in the equivalent BUS ADM 207 course.
2. A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 271) should consider the equivalent BUS ADM 231 course.
3. Or equivalent to MATH 208 or MATH 211.

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
</tbody>
</table>
BUS ADM 360  Principles of Marketing 4  3
BUS ADM 370  Introduction to Supply Chain Management 5  3
BUS ADM 391  Business Law I  3
BUS ADM 600  Management Analysis  3

International Business Component
Complete one of the following:  3
BUS ADM 456  International Financial Management
BUS ADM 465  International Marketing
BUS ADM 496  International Business
BUS ADM 498  Study Abroad: Business Topics:
BUS ADM 535  Global Information Technology Management
BUS ADM 541  Cross-Cultural Management
BUS ADM 551  International Investments

Total Credits  29

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
4 Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.
5 Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

Finance Major Requirements
A minimum of 21 credits is required beyond BUS ADM 350 (Principles of Finance) or BUS ADM 351 (Business Scholars: Principles of Finance). A minimum "C" grade must be earned in BUS ADM 350 or BUS ADM 351 to pursue the finance major. BUS ADM 450 (Intermediate Finance) is a prerequisite or co-requisite for several courses in the finance major. BUS ADM 450 should be completed soon after BUS ADM 350 or BUS ADM 351.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance 1</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 451</td>
<td>Investment Finance 1</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 455</td>
<td>Financial Institutions 1</td>
<td>1</td>
</tr>
</tbody>
</table>

Major Electives  12-13
Select four courses from the list below:
BUS ADM 301  Intermediate Accounting 1
BUS ADM 452  Applied Portfolio Management 1
BUS ADM 453  Corporate Finance Seminar
BUS ADM 454  Analysis of Options and Futures 1
BUS ADM 456  International Financial Management 1,2
BUS ADM 457  Financial Modeling
BUS ADM 458  Venture Finance
BUS ADM 459  Finance Professional Internship
BUS ADM 481  Real Estate Finance 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 551</td>
<td>International Investments 1,2</td>
<td>21-22</td>
</tr>
</tbody>
</table>

1 This finance major course represents foundational material for the CFA Level 1 Exam.
2 If BUS ADM 456 or BUS ADM 551 is selected as the International Business Component course, students must choose a different finance elective to complete the major.

Business Electives
A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
<td>12</td>
</tr>
</tbody>
</table>

Select 12 credits in the Lubar School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.

General Electives
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>13</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Foreign Language credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits  13

Degree Completion Requirements
Credits
A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average
Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements
A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment.
at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Post-Baccalaureate Options**
The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar School’s Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.

**Double Majors**
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

**Advising**
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

**Career Services**
The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master's Degrees (p. 39).

**Honors in the Lubar School of Business**
Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations/) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 271).

**Dean's Honor List**
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**General Business, Minor**
No matter the major, employers in every field are looking for people who have backgrounds in business. The Lubar School of Business offers a General Business Minor to provide a professional business education dimension to non-business students at UWM schools and colleges.

As a Business Minor, courses are completed that examine the many facts of business, including accounting, finance, marketing, management, information systems, and economics, developing business knowledge and skills that assist anyone working in today's marketplace.

The courses in the program are offered in both online and in-person formats. Most students spread out the 29-credit Business Minor coursework over their academic career.

Interested students should contact the academic advisors in Room N297 of Lubar Hall, (414) 229-5271, for further details.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**
30

1 Or equivalent. Consult an academic advisor in Undergraduate Student Services for a list of equivalent courses.

At least 15 credits for the General Business Minor must be completed at UWM. You must also complete all 30 credits with an overall grade point average of at least 2.25. No courses may be taken on a credit/no credit basis.

**Post-baccalaureate General Business Minor**
The General Business Minor is available at the post-baccalaureate level. Students requiring no more than 6 credits to complete the minor are eligible. At least 15 credits for the post-baccalaureate General Business Minor must be completed at UWM. A minimum of 3 post-baccalaureate
Global Studies, BA: Global Management

Global Management Track

The Global Management track of UWM's Global Studies program focuses on the impact of globalization on business and the world economy. Global Studies-Management prepares students as future managers, capable of analyzing transnational issues; strategizing within a global, cross-cultural context; and implementing projects with a strong understanding of globalization's implications for the private and public sectors. Students are required to complete a study abroad program, an overseas internship, and study a foreign language, both practical and applied experiences that provide a distinct edge. This track will prepare students to assume leadership roles in many areas, but it will be advantageous especially in such fields as international business, consulting, education, government, and public policy. In addition, graduates of this track will meet the background course requirements for admission to an MBA program. The College of Letters and Science and the Sheldon B. Lubar School of Business jointly award this degree.

For more information on how to complete the Global Management Track, see the Global Studies, BA (p. 966).

Human Resources and Labor Relations, MHRLR (Lubar School of Business)

Related Certificates

- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate/)
- Graduate Certificate in International Human Resources and Labor Relations (http://uwm.edu/graduateschool/international-human-resources-labor-relations-certificate/)

Overview

The Master of Human Resources and Labor Relations (MHRLR) prepares leaders to be successful professionals. Whether you are currently in the field, a recent college graduate or wish to change careers, MHRLR provides the knowledge necessary to thrive. Our classes emphasize practical application of theory, laying the foundation for your future success.

Jobs in Human Resources will grow faster than average over the next decade. The MHRLR degree allows you to capitalize on that growth and advance in an increasingly complex business environment.

While the majority of our students work full-time in the profession and attend classes part-time, many others choose to attend full time to progress more quickly through the program. Our small classes provide the opportunity to network with both the faculty and fellow human resources and labor relations professionals.

The Lubar School of Business and the College of Letters and Science jointly offer the MHRLR degree.

Admission Requirements

Application Deadline

Students may begin their studies in the Fall, Spring or Summer semesters. Applications are accepted on a continuous basis. The program does not have a specific deadline to apply.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following requirements to be considered for admission to the MHRLR program:

1. Submission of two letters of recommendation to the MHRLR program.
2. Submission of GRE (http://uwm.edu/graduateschool/admission/#gre) or GMAT (http://uwm.edu/graduateschool/admission/#gmat) scores is recommended, but not required.
3. Students admitted to the program will be expected to present at least three credits of prior work in both microeconomics and introductory statistics.
4. Students who are deficient in the areas of microeconomics or statistics at the time of admission (see above), will be expected to satisfy deficiency requirements within three enrolled semesters. Deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted for the degree.
5. Applicants are reviewed by the MHRLR admissions committee to assess academic achievements and the ability to do intensive graduate-level work.

Credits and Courses

The Master of Human Resources and Labor Relations degree will be awarded upon completion of 36 credits of prescribed graduate study and appropriate prerequisite coursework. The program offers a balance between liberal arts and business-based education, requiring that at least 15 credits be taken within the College of Letters and Science and at least 15 credits be taken within the Lubar School of Business. The MHRLR Program believes in a common body of knowledge and skills necessary to be an effective Human Resource or Labor Relations professional.

The program has a required core of seven courses totaling 21 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND REL 701</td>
<td>Industrial and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 735</td>
<td>Staffing Organizations</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 720</td>
<td>Economics of Personnel 1</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 753</td>
<td>Collective Bargaining</td>
<td></td>
</tr>
<tr>
<td>IND REL 712</td>
<td>Employment Law 2</td>
<td>3</td>
</tr>
<tr>
<td>or IND REL 711</td>
<td>Labor Relations Law</td>
<td></td>
</tr>
<tr>
<td>IND REL 731</td>
<td>Research Tools for Practitioners in Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>or BUSMGMT 731</td>
<td>Research Tools for Practitioners in Human</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

credits must be completed at UWM. A minimum overall GPA of 2.25 on all General Business Minor courses must be earned; a minimum UWM post-baccalaureate GPA of 2.0 is required.
Human resource (HR) managers play an essential and strategic role in helping organizations recruit, train and retain an effective workforce. HR managers understand people and help organizations create an inclusive and productive workforce by providing performance and talent management systems, offering training, career development and work-life programs, and by creating effective compensation and benefits packages. HR managers also help organizations develop effective leaders and teams, and proactively work with top-management to build inclusive and positive organizational cultures. Effective HR managers are skilled in interpersonal communication, conflict resolution, diversity management, and perspective-taking.

The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both).

Elective Courses
The choice of electives to complete a MHRLR degree should reflect student interest. Students are not required to choose a specialization and are encouraged to select those electives that best suit their backgrounds and interests. A student may take up to 6 credits from the approved list of alternative electives in other schools such as the College of Nursing, the School of Education, and the School of Social Welfare. No student will be permitted to apply more than nine credits taken at the U/G level toward meeting MHRLR degree requirements. Please refer to the MHRLR website (http://uw.edu/human-resources-labor-relations/graduate/requirements/elective-courses/) for a comprehensive listing of elective courses.

Students without prior experience in the field are encouraged to take advantage of the program’s extensive contacts in the business and labor communities by undertaking one or more internships as either BUS ADM 899 or IND REL 921. Students may also utilize the wide range of faculty expertise available within the program for a major research paper on a human resources or labor relations topic. These papers, under the direction of a faculty advisor, are taken as either IND REL 801 or BUS ADM 899. A student may graduate with honors from the MHRLR program by maintaining a 3.5 grade-point average within the program, and by writing a 3-credit major research paper (under BUS ADM 899 or IND REL 801).

Any new course development, programmatic changes, or program name change must be approved by the appropriate curricular committees and faculty in the respective units.

The program, including admissions and course staffing, is subject to the AACSB accreditation requirements.

Additional Requirements
Major Professor as Advisor
The assistant director of the MHRLR Program advises and supervises newly admitted students. The assistant director, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements.

Human Resources Management, BBA

Requirements

**Advancement to the Major**

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Attain Junior standing (56 credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>1</td>
</tr>
<tr>
<td>Or obtain a high enough score on the English Placement Test, ACT-English, or SAT-ERW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a cumulative GPA of 2.50 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar School of Business</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a cumulative UWM GPA of 2.00 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Advancement to the Major form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available in the Undergraduate Student Services office or online</td>
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<td></td>
</tr>
</tbody>
</table>

**Lubar School of Business General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent) ¹</td>
<td>4</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following (QL-A):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ If IND REL 720 and ECON 753 are both taken, one of these may be used to help fulfill elective requirements.
² If IND REL 711 and IND REL 712 are both taken, one of these may be used to help fulfill elective requirements.
³ The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both).
Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following (QL-B):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
</tbody>
</table>

Or equivalent course

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (At least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Total Credits 24

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

4 Excluding MATH 211, MATH 221, or MATH 231.

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 271) should enroll in the equivalent BUS ADM 207 course.

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

International Business Component

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 29

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.

2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.

3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

4 Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.

5 Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

Human Resources Management Major Requirements

Human Resources Management majors are required to complete PSYCH 101 (Introductory Psychology) as part of their Social Sciences requirement.

The major in human resources management requires 21 human resources management credits beyond the 3 credits of BUS ADM 330 (Organizations) or BUS ADM 331 (Business Scholars: Organizations).
**Required**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 444</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core**

Select three courses from the list below:

- BUS ADM 440: Compensation Management
- BUS ADM 441: Diversity in Organizations
- BUS ADM 443: Special Topics in Human Resources Management: (Topic: Employment Law)
- BUS ADM 445: Training & Development in Organizations
- BUS ADM 448: Staffing Human Resources
- ECON 415: Economics of Employment and Labor Relations

**HRM Electives**

Select three courses from the Core Courses listed above or from the following:

- BUS ADM 442: Industrial Psychology
- BUS ADM 443: Special Topics in Human Resources Management: (subtitle)
- BUS ADM 449: Human Resources Management Professional Internship
- COMMUN 300: Interviewers and Interviewing
- COMMUN 310: Communication in Organizations
- ECON 448: Economics of Human Resources
- PSYCH 325: Research Methods in Psychology

**Business Electives**

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Select 12 credits in the Lubar School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.

Total Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Language credits**

Total Credits

13

**Degree Completion Requirements**

**Credits**

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

**Grade Point Average**

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

**Residence Requirements**

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Post-Baccalaureate Options**

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubars School’s Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.

**Double Majors**

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

**Advising**

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

**Career Services**

The Lubars School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online
national job searches and an alumni placement service are other services offered.

**Accelerated Program Option**

This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**Honors in the Lubar School of Business**

Beta Gamma Sigma ([http://uwm.edu/business/academics/student-organizations/](http://uwm.edu/business/academics/student-organizations/)) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 271).

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Information Technology Management, BBA**

The Information Technology Management (ITM) degree provides undergraduate students with the knowledge needed to develop creative and effective business solutions, based on a thorough comprehension of business problems and opportunities.

To that end, students are provided with a strong technical foundation in contemporary approaches to business application systems development which includes planning, analysis, design, project management, programming, maintenance, and support using state-of-the-art technologies, tools, and techniques, as well as an essential background in various business functional areas, such as management, marketing, accounting, finance, supply chain, and economics. In addition, there is an emphasis on the communication skills and teamwork critical to client understanding and satisfaction.

The ITM program is intended to be the first step in a lifelong learning experience in the exciting and dynamic field of ITM. It provides a strong foundation for advancement and success in ITM careers and ventures.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 282)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 282)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 283)</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Business Core (p. 283)</td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>Major Requirements (p. 283)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

**Advancement to the Major**

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain Junior standing (56 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Or obtain a high enough score on the English Placement Test, ACT-English, or SAT-ERW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a cumulative GPA of 2.50 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar School of Business</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a cumulative UWM GPA of 2.00 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Advancement to the Major form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available in the Undergraduate Student Services office or online</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lubar School of Business General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following (QL-A):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following (QL-B):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td></td>
</tr>
</tbody>
</table>
MATH 211  Survey in Calculus and Analytic Geometry
Or equivalent course

Arts
Select 3 credits
3

Humanities
Select 6 credits
6

Social Sciences
Select 6 credits
6

Natural Sciences
Select 6 credits (At least two courses including one lab)
6

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

Total Credits
24

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.
2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.
3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.
4 Excluding MATH 211, MATH 221, or MATH 231.

Business Core Courses
Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208 or MATH 211</td>
<td>Quantitative Models for Business</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits
21

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 271) should enroll in the equivalent BUS ADM 207 course.
2 A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 271) should consider the equivalent BUS ADM 231 course.
3 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

International Business Component
Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits
29

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
4 Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.
5 Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

Information Technology Management Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 335</td>
<td>Visual System Development 1</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 432</td>
<td>Object-Oriented Systems Development</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 434</td>
<td>Data Base Management Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 436</td>
<td>Systems Analysis and Design</td>
<td></td>
</tr>
</tbody>
</table>

Major Electives
Select four courses from the list below:

Total Credits
12
### Information Technology Management, BBA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 433</td>
<td>Information Technology Project Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 438</td>
<td>Information Technology Management Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 439</td>
<td>Information Technology Management Professional Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 530</td>
<td>Introduction to eBusiness</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 531</td>
<td>Developing Web Applications Using Web Services</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 533</td>
<td>Information Technology Infrastructure for Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 534</td>
<td>Advanced Information Technology Project Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 536</td>
<td>Business Intelligence</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 538</td>
<td>Business Process Integration</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 539</td>
<td>Web Application Server Development</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>24</td>
</tr>
</tbody>
</table>

1. A grade of "C" or better is required in BUS ADM 335 in order to enroll in advanced ITM courses.
2. If BUS ADM 535 is selected as the International Business Component course, students must choose a different ITM elective to complete the major.
3. These ITM courses represent foundational material for the TERP 10 Certification preparation course exam.

### Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 9 credits in the Lubar School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>9</td>
</tr>
</tbody>
</table>

### General Electives

Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>13</td>
</tr>
</tbody>
</table>

### Foreign Language credits

Total Credits: 13

### Degree Completion Requirements

#### Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

#### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

### Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelor's degree only. Requirements of a second undergraduate degree are listed on the Lubar School's Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.

### Double Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

### Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

### Career Services

The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online
national job searches and an alumni placement service are other services offered.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**Honors in the Lubar School of Business**
Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations/) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 271).

**Dean’s Honor List**
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Information Technology Management, MS**
The Master of Science in Information Technology Management (ITM) program at the Lubar School of Business is an innovative, STEM-designated program that combines technical, managerial, and business knowledge - providing students with a unique blend of skills to address IT challenges in today’s dynamic business environment.

Through a combination of rigorous core courses and advanced elective courses, students acquire a diverse skill set in information technology management and develop specialized knowledge and expertise in areas such as enterprise resource planning, business analytics, and security and risk management.

The program is designed to serve both individuals pursuing a change in career, as well as IT professionals desiring greater in-depth knowledge to advance in their careers. In addition, it will prepare students who seek admission to a PhD program. The program can be completed within one to three years, depending upon part-time or full-time enrollment status.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
2. Review by the MS-ITA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

**Credits and Courses**
The MS in ITM degree is a 30-credit program and includes 15 Required credits and 15 Elective credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>15</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 748</td>
<td>Managing Information Technology Projects (capstone course)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**
Select at least five of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 743</td>
<td>Information Privacy, Security &amp; Continuity</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 746</td>
<td>Topics in Information Technology Management: (subtitled)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 811</td>
<td>Process and Work-Flow Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 812</td>
<td>Emerging Information Technologies for Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 814</td>
<td>Enterprise Knowledge &amp; Semantic Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 818</td>
<td>Information Systems Practicum</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 819</td>
<td>Information Technology Management Internship</td>
<td></td>
</tr>
<tr>
<td>BUSBGMT 732</td>
<td>Enterprise Resource Planning</td>
<td></td>
</tr>
<tr>
<td>BUSBGMT 733</td>
<td>Enterprise Simulation Game</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**
30

**Additional Requirements**

**Major Professor as Advisor**
Admitted students are assigned a faculty advisor who will work with the student to assemble a program of study. The advisor will monitor
Completing the certificate requires the following:

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**International Business, Undergraduate Certificate**

Most businesses are affected in some way by international influences, such as currency issues, outsourcing, transportation, or distribution networks. No matter the degree, an understanding of international economics, political, and cultural differences will provide new perspectives. Students with an interest in overseas markets and the global economy will find the International Business Certificate a valuable addition to springboard a business career.

The Certificate in International Business is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in international business. Students will take a coordinated series of international courses and receive a certificate that signifies their knowledge in this area.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

**Requirements**
To obtain the certificate, the student must complete a minimum of 15 approved international business credits while fulfilling all requirements of the baccalaureate degree, including UWM’s foreign language requirement. The certificate is open to all undergraduate business and non-business majors and to students who have previously earned a bachelor’s degree from UWM or any accredited college or university. Non-business majors will need at least 17 prerequisite credits of business coursework, in addition to ECON 103 and ECON 104, to complete this certificate.

Completing the certificate requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>2</td>
</tr>
<tr>
<td>BUS ADM 466</td>
<td>International Business</td>
<td>2</td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td>2</td>
</tr>
</tbody>
</table>

**Electives**
Select at least two additional internationally-oriented courses from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar: (International topics only)</td>
<td>2</td>
</tr>
<tr>
<td>BUS ADM 494</td>
<td>International Business Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business: (International topics only)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 497</td>
<td>Study Abroad: (International topics only)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
</tbody>
</table>

**Required**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>2</td>
</tr>
<tr>
<td>BUS ADM 457</td>
<td>Cross-Cultural Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 458</td>
<td>International Investments</td>
<td>2</td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td></td>
</tr>
<tr>
<td>ECON 454</td>
<td>International Trade</td>
<td></td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
<td></td>
</tr>
<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
<td></td>
</tr>
<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
<td></td>
</tr>
<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits: 15

1. Students majoring in business administration and completing an International Business Certificate can count BUS ADM 496 toward their International Business component.
2. A business student may count no more than 6 credits from a major towards a business certificate.
3. Repeatable for credit with a change in topic up to 6 credits.

Note: Non-business students will need at least 17 prerequisite credits from the Lubar School of Business, in addition to ECON 103 and ECON 104, to complete this certificate. BUS ADM 456 requires BUS ADM 350 (which requires ECON 103, ECON 104, BUS ADM 201, and BUS ADM 210 or equivalent); BUS ADM 465 requires BUS ADM 360 (which also requires ECON 104); and BUS ADM 496 requires BUS ADM 330 (plus BUS ADM 350 and BUS ADM 360).

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

**Investment Management, Graduate Certificate**

The Graduate Certificate in Investment Management provides students with the knowledge and skills necessary to manage a balanced (fixed income and equity) investment fund. Those completing the certificate will gain a substantial competitive edge in pursuing a career as an analyst or an investment advisor, later as an investment portfolio manager, and possibly as a chief investment officer.

The curriculum features a broad spectrum of investment-related subjects, with an emphasis on intensive research and applied training in complex financial tools and techniques. The program also includes a professional internship. Central to the curriculum is the David O. Nicholas Applied Finance Lab, which is equipped with state-of-the-art professional databases and financial software, replicating the technology and market data, analysis, and research available to professional investors in investment firms.

In addition to a rich curriculum, Investment Management Certificate (IMC) students meet regularly with investment professionals during, and outside of, class for discussions of the funds, markets, and course
topics. The Lubar School of Business is part of the prestigious Chartered Financial Analyst (CFA) Institute University Affiliation Program.

Students interested in the certificate program should contact Graduate Student Services, Lubar Hall N251, (414) 229-5403, or mba-ms@uwm.edu. Students are also encouraged to contact Dr. Kevin Spellman, the director of the IMC program, at spellman@uwm.edu for information on the program.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Pantera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Pantera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

Credits and Courses

It is recommended that the following courses have been completed prior to admission to the certificate: BUSMGT 705, BUS ADM 721 & BUS ADM 771 (or undergraduate equivalents). If not completed prior to admission to the certificate, BUSMGT 705 must be taken concurrently with BUS ADM 550. BUS ADM 721 (or BUS ADM 301) and BUS ADM 771 must be taken before, or concurrently with, BUS ADM 552. If a candidate has passed the CFA Level I exam, the student is exempted from BUSMGT 705, BUS ADM 721, and BUS ADM 771. Admission is competitive and is based on cumulative GPA, course grades, personal statement, a potential interview and interview essays, interest in investments and finance (e.g. Student Investment Club), and other considerations.

To obtain the certificate, a student must complete 21 credits of required coursework. The certificate may be completed alone, or in conjunction with a degree program. Due to the intensity of the coursework in the Investment Management Certificate, the program will be of most interest to students pursuing an M.S. in Management degree with a concentration in Finance Analysis, or an M.B.A. degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 550</td>
<td>Investment Management Practice I 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 552</td>
<td>Investment Management Practice II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 553</td>
<td>Investment Management Practice III</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 554</td>
<td>Investment Management Practice IV</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 772</td>
<td>Portfolio Management 1</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Approved MS in Management-Finance Analysis electives.

Additional Requirements

Internship Requirement
Students completing the certificate are also required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Investment Management, Undergraduate Certificate

The Investment Management Certificate (IMC) is designed to offer business students the opportunity to enhance their major field of study in finance (or additional major including finance) with an additional certificate in investment management. Students completing the Investment Management Certificate will have coursework in investment-
related subjects and four special courses comprising intensive research and real-time practical training in investment portfolio management. This training will utilize the David O. Nicholas Applied Finance Lab located in the Sheldon B. Lubar School of Business. Finance majors who complete this certificate will gain a substantial competitive edge in pursuing a career initially as an analyst and as an investment advisor, later as an investment portfolio manager, and possibly as a chief investment officer.

In addition to a rich curriculum, IMC students meet regularly with investment professionals during, and outside of, class for discussions of the funds, markets, and course topics. The Lubar School of Business is part of the prestigious Chartered Financial Analyst (CFA) Institute University Recognition Affiliation Program.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention. Students are encouraged to also contact Dr. Kevin Spellman (spellman@uwm.edu), the director of the IMC program, for further information about the certificate program.

**Requirements**
To obtain the certificate, a student must complete 21 credits of required coursework while fulfilling all requirements of the BBA baccalaureate degree. Due to the intensity of the coursework in the Investment Management Certificate (IMC), the program will be of most interest to students pursuing the BBA finance and/or accounting majors. Because IMC program prerequisites are firmly enforced, students are encouraged to view all relevant course descriptions for prerequisites information in the UWM Catalog: https://catalog.uwm.edu/courses/bus_adm/

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 452</td>
<td>Applied Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 454</td>
<td>Analysis of Options and Futures</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 457</td>
<td>Financial Modeling</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 550</td>
<td>Investment Management Practice I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 552</td>
<td>Investment Management Practice II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 553</td>
<td>Investment Management Practice III</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 554</td>
<td>Investment Management Practice IV</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

1 A business student may count no more than 9 credits from a major towards the Certificate in Investment Management.

**Internship Requirement**
Students completing the certificate also are required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMC director.

**Graduation Requirements**
Students must complete all coursework required for the certificate with at least a 3.0 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

**Management Science, PhD**
The Management Science PhD program is a rigorous and high-quality, research-oriented program that offers students an opportunity to specialize in one of six management fields: accounting, finance, information technology management, marketing, organizations & strategic management, and supply chain/operations management. Students may also minor in business statistics, international business, economics, econometrics, or psychology.

The Lubar School of Business Management Science PhD is a STEM-designated program. This rigorous program will provide the independent research skills needed to prepare the student for success in academia or a research-related career.

The classes, papers and exams are the formal portion of this apprenticeship. Beyond that, however, much of what the student learns will occur out of the class by attending research colloquia, presenting personal research, holding informal discussions with faculty, working with faculty and others on research projects, and interacting with other PhD students.

Objectives of the Lubar PhD program include effectively analyzing research questions in the area of specialization, demonstrating research competence, developing teaching skills, and establishing an independent, high quality research record.

The degree requires a minimum of 34 credits beyond the master or 54 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Management Science PhD applications must be received by January 1 for admission to the following Fall semester. The application package must be complete and all materials received by February 1. All applications are reviewed in mid-February for the upcoming academic year starting in September.

Applicants must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission to the program:
• A bachelor's degree from an accredited college or university. Almost all applicants admitted, however, are master's degree holders.
• Substantial evidence of scholarly potential and commitment.
• Submission of score on either the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
• Two letters of recommendation in support of the candidate's competence to do doctoral work.
• A written statement from the applicant stating reasons for pursuing PhD level study and an indication of the major field to be studied.

Applicants are expected to have adequate preparation at the undergraduate or graduate level equivalent to one semester each of coursework in calculus, statistics, and linear algebra. Applicants who do not have the above background must complete equivalent courses. Specific courses from the Lubar School of Business or from departments outside the School will be suggested to satisfy preparation in these areas. These courses do not count toward credit requirements for the degree. As some areas of study admit students for alternating academic years, please review the following Lubar School of Business Website (http://uwm.edu/business/academics/doctoral/admissions/).

Reaplication
A student who has received a master's degree in Business Administration from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before beginning studies toward the PhD degree.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor's degree, of which a minimum of 34 credits must be earned in residence at UWM beyond the master's level.

The student plans an individual program of studies in consultation with the major professor. The program has no formal language requirement but the student is responsible for familiarity with published literature in the area of the student's research. All students will also be required to complete an "Orientation to Teaching and Research" course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 900</td>
<td>Doctoral Orientation to Teaching and Research</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum 12 credits of research methods courses 12
Minimum 12 credits in student's major field 12
Minimum 9 credits in student's minor field of study 9
Electives and BUS ADM 997 20
Total Credits 54

Stage 3
The third stage of the program consists of coursework and research in the major and minor fields of study as specified in the student's program of studies. Coursework must include a minimum of 12 credits in the student's major field and a minimum of 9 credits in the student's minor field of study.

As a first step in developing a research focus, PhD students are required to submit a paper by the end of their third semester to be presented at a research seminar, conference, or an on-campus seminar that includes at least two faculty members from their department.

If a student fails to complete the research paper requirement, he/she will be subject to dismissal from the doctoral program for lack of progress toward degree.

Additional Requirements
Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Within the first semester, the student arranges for assignment to an advisor within the student's specialization.

Residence
The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examinations
The student must pass written doctoral preliminary examinations in the major field of study. Minor field requirements include completing approved coursework with a specified grade point average or passing a written examination as specified by the appropriate department. A student is admitted as a candidate for the Ph.D. degree after successful completion of the doctoral preliminary examinations.

Dissertation
The candidate must write a dissertation that demonstrates ability to formulate a research topic and pursue independent and original investigation.

Dissertation Defense
A formal oral defense of the dissertation by the student and certification of the dissertation by the dissertation committee are necessary steps to complete the degree requirements.

Time Limit
All degree requirements must be completed within 10 years from the date of initial enrollment in the doctoral program.

Additional information on Graduate School PhD requirements is on the Graduate School website (http://uwm.edu/graduateschool/doctoral-requirements/).

Management, MS: Accounting
The MS in Management - Accounting (MS-A) concentration prepares students for entry into the accounting profession as a Certified Public Accountant (CPA). Employers seek mature students with diverse prior undergraduate education backgrounds and work experiences. The program efficiently covers basic accounting principles and adds graduate level coursework in accounting for governmental and not-for-profit organizations, advanced accounting theory, decision-focused management accounting, and tax compliance and planning.
The program prepares students for success on the CPA exam. Graduates boast a pass rate substantially above national averages. Because the program is separately accredited in accounting by the AACSB (one of three such schools in Wisconsin), graduates automatically meets the requirements to take the CPA Exam and to be licensed as a CPA in Wisconsin.

Potential students typically take foundation courses prior to entering the program. Success in the foundation courses assures success in the program. The graduate program can be completed on a full-time basis in two semesters and a summer. Part-time students can complete the program in two years. A faculty member custom designs a program for each student. In most cases, a full-time internship is included for full-time students. The internship normally lead to full-time employment upon graduation.

A large portion of MS-A students intern and upon graduation take full-time positions in CPA firms ranging from “The Big 4” International firms to local practices. Other students choose industry positions which include Wisconsin’s largest corporations and financial institutions.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business/) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required (27 credits)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 406</td>
<td>Income Tax Accounting II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 408</td>
<td>Accounting Information Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 722</td>
<td>Advanced Financial Accounting Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 724</td>
<td>Business Combinations and Governmental Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 725</td>
<td>Strategic Cost Management I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 728</td>
<td>Auditing Theory and Applications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 753</td>
<td>Advanced Business Law</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 821</td>
<td>Advanced Taxation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 840</td>
<td>Current Issues in Financial Reporting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Choose one course from the approved list:

| BUS ADM 726         | Strategic Cost Management II       |         |
| BUS ADM 749         | Data and Information Management    |         |
| BUS ADM 771         | Investments                        |         |
| BUS ADM 772         | Portfolio Management               |         |
| BUS ADM 795         | Seminar-in-Management: (taxation topics) |         |
| BUS ADM 816         | Business Intelligence Technologies & Solutions |         |
| BUS ADM 820         | Tax Research, Practice, and Procedure |         |
| BUS ADM 823         | Corporate Income Taxation          |         |
| BUS ADM 826         | Tax Planning for Individuals       |         |
| BUS ADM 828         | Taxation of Partnerships, S Corporations, and LLCs |         |
| BUS ADM 841         | Financial Statement Analysis       |         |
| BUS ADM 844         | Auditing: Professional Standards and Practices |         |
Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

Management, MS: Finance Analysis

The MS in Management - Finance Analysis concentration includes extensive study of financial markets to prepare students for professional careers in corporate and investment finance. The curriculum includes an examination of capital markets, investment banking, financial institutions, corporate financial control, securities valuation techniques, capital budgeting, portfolio strategies, hedging and arbitrage, and international fund management.

The program provides students with foundational training in accounting and statistical analysis, in-depth finance skill sets necessary to understand and meet the growing needs of financial industries, and gain preparation necessary for the Chartered Financial Analyst (CFA) exams.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applications admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business/) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

<table>
<thead>
<tr>
<th>Finance Analysis</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 721</td>
<td>Financial Accounting Theory</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 751</td>
<td>Analysis of U.S. Business Environment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 771</td>
<td>Investments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 775</td>
<td>Financial Strategy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 778</td>
<td>Financial Institutions and Markets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The MS-Marketing concentration provides knowledge to strategically position an organization - whether consumer or B2B - for competitive advantage, focusing on marketing strategy, marketing research, consumer behavior, and internet marketing. Additional emphasis on international operations delivers the tools needed to understand and overcome the economic, cultural, political, and legal barriers to international marketing.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**
An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) ([http://uwm.edu/graduateschool/admission/#gmat](http://uwm.edu/graduateschool/admission/#gmat)).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website ([http://www4.uwm.edu/business/](http://www4.uwm.edu/business/)) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

**Management, MS: Marketing**

From the expanding presence of social media that empowers customers, to the downward pressure on prices due to increased competition, the rules of marketing continue to be rewritten. Today the number of media options that consumers turn to is in the hundreds of thousands, and businesses must find a way to position themselves strategically and cost effectively.

**Additional Requirements**

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

**Major Professor as Advisor**

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

**The Management Research Project/Thesis**

The Management Research Project/Thesis is a variable 2-6 credit management research project.

**Comprehensive Examination**

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

**Accelerated Program Option**

This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**Credits and Courses**

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits.

<table>
<thead>
<tr>
<th>Electives</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
</tr>
<tr>
<td>BUS ADM 772</td>
<td>Portfolio Management</td>
</tr>
<tr>
<td>BUS ADM 773</td>
<td>Options And Futures</td>
</tr>
<tr>
<td>BUS ADM 774</td>
<td>Global Financial Management</td>
</tr>
<tr>
<td>BUS ADM 777</td>
<td>Advanced Corporate Finance</td>
</tr>
<tr>
<td>BUS ADM 779</td>
<td>Fixed Income Securities</td>
</tr>
<tr>
<td>BUS ADM 795</td>
<td>Seminar-in-Management: (Finance Topic)</td>
</tr>
<tr>
<td>BUS ADM 851</td>
<td>Global Investments</td>
</tr>
<tr>
<td>BUS ADM 852</td>
<td>Venture Finance</td>
</tr>
<tr>
<td>BUS ADM 853</td>
<td>Financial Modeling</td>
</tr>
</tbody>
</table>

Total Credits 33

1 Integrating course
In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

### Marketing

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 762</td>
<td>Marketing Research</td>
<td>18</td>
</tr>
<tr>
<td>BUS ADM 764</td>
<td>Buyer Behavior and Marketing Communications</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 765</td>
<td>Strategic Product and Brand Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 806</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUSMGMNT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMNT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select four courses from the following list:

- BUS ADM 544 New Product Development
- BUS ADM 761 Seminar in Marketing: (current topics)
- BUS ADM 763 Marketing Analytics
- BUS ADM 766 Marketing for Nonprofit Organizations
- BUS ADM 769 Database Marketing
- BUS ADM 795 Seminar-in-Management: (Ideas & Applications of Data Science in Different Fields)
- BUS ADM 894 Internet Marketing
- BUS ADM 899 Management Research Project/Thesis
- BUSMGMNT 713 Entrepreneurship: Venture Creation and Management

**Total Credits**: 30

---

### Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

**Major Professor as Advisor**

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

**The Management Research Project/Thesis**

The Management Research Project/Thesis is a variable 2-6 credit management research project.

**Comprehensive Examination**

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

**Accelerated Program Option**

This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).

### Management, MS: Professional Accounting

The MS in Management - Professional Accounting (MS-PA) program is the logical capstone degree in accounting for a student with an undergraduate degree in accounting. Students are advised to enter the program immediately after earning their undergraduate degree in accounting to in order to build on their current knowledge.

Lubar School of Business accounting programs are separately accredited by AACSB. We are one of only three accounting programs in the state and one of 193 schools in the world with such accreditation.

Because the undergraduate BBA Accounting major curriculum does not include all coursework needed to successfully pass the Certified Public Accounting (CPA) Exam, the MS-PA program adds advanced work in financial accounting theory, auditing, tax compliance and planning, and law. The program also includes a specialty choice in either Assurance Services (auditing) which covers financial statement analysis, auditing computerized systems and forensics; or a specialty in Taxation which covers multi-jurisdictional taxation, tax research, tax planning, and corporate taxation. Most students enter a public accounting career specializing in either auditing or tax. Some students choose to work for large corporations or financial institutions.

Students are advised to complete an accounting internship prior to entering the program. Typically, internships result in full-time employment offers upon graduation from the MS-PA program. The MS-PA is normally completed in one year (including summer and/or winterim coursework).

Under Wisconsin law, students with an undergraduate degree in accounting are allowed to sit for the CPA Exam during the program. Most students integrate taking the various parts of the CPA Exam while completing the MS-PA degree. Graduates have a pass rate 50% greater than the national average and four times greater than that of UWM undergraduates not entering the MS-PA program. Most students complete the CPA Exam before they begin full-time employment. Completing the MS-PA degree meets the education requirements to be a CPA in Wisconsin.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business/) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses
The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

### Professional Accounting

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Required</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 724</td>
<td>Business Combinations and Governmental Accounting</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 753</td>
<td>Advanced Business Law</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 821</td>
<td>Advanced Taxation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 840</td>
<td>Current Issues in Financial Reporting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 844</td>
<td>Auditing: Professional Standards and Practices</td>
<td></td>
</tr>
</tbody>
</table>

### Tracks
Select one of the following tracks:

- **Assurance Services Track**
- **Taxation Track**

#### Assurance Services Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 720</td>
<td>Information Systems Auditing</td>
<td>9</td>
</tr>
<tr>
<td>BUS ADM 723</td>
<td>Forensic Accounting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 841</td>
<td>Financial Statement Analysis</td>
<td></td>
</tr>
</tbody>
</table>

#### Electives
Select two courses from the list below:

- BUS ADM 726 Strategic Cost Management II
- BUS ADM 749 Data and Information Management
- BUS ADM 771 Investments
- BUS ADM 772 Portfolio Management
- BUS ADM 773 Options And Futures
- BUS ADM 774 Global Financial Management
- BUS ADM 775 Financial Strategy
- BUS ADM 778 Financial Institutions and Markets
- BUS ADM 779 Fixed Income Securities
- BUSMGMT 726 Study Abroad: Business Topics: (subtitle: Ernst & Young Graduate Accounting Study Abroad)
- BUS ADM 816 Business Intelligence Technologies & Solutions

#### Total Credits

- **15**

- **Integrating course**

#### Taxation Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 820</td>
<td>Tax Research, Practice, and Procedure</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 823</td>
<td>Corporate Income Taxation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 826</td>
<td>Tax Planning for Individuals</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 828</td>
<td>Taxation of Partnerships, S Corporations, and LLCs</td>
<td></td>
</tr>
</tbody>
</table>

#### Electives
Select one course from the list below:

- BUS ADM 720 Information Systems Auditing
- BUS ADM 749 Data and Information Management
- BUS ADM 795 Seminar-in-Management: (taxation topics)
- BUS ADM 816 Business Intelligence Technologies & Solutions
- BUS ADM 841 Financial Statement Analysis

#### Total Credits

- **30**
Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business/) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

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- Finance Analysis;
- Marketing;
- Taxation.

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### Credits and Courses

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Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

#### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

<table>
<thead>
<tr>
<th>Taxation Core Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 406</td>
<td>Income Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 820</td>
<td>Tax Research, Practice, and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 823</td>
<td>Corporate Income Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 826</td>
<td>Tax Planning for Individuals</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 827</td>
<td>Taxes and Business Strategy 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 828</td>
<td>Taxation of Partnerships, S Corporations, and LLCs</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 831</td>
<td>Multistate Income Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 834</td>
<td>International Taxation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 6-9 credits from the following: 6-9

- BUS ADM 829 Executive Compensation and Benefits
- BUS ADM 832 Property Taxation
Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

Marketing, BBA

Marketing is a key factor contributing to the success of any business organization. It is the dynamic and creative process of the development, pricing, promotion, and distribution of products and services to satisfy customer and organizational objectives. Effective marketing requires an integration of eclectic knowledge and the skills pertinent to understanding consumer behavior, planning and analyzing marketing research data, thinking strategically, and managing people.

Students learn how marketing supports an organization’s objectives; how to examine consumer motivation and behavior; how to price, promote, and distribute products and services; and how to plan and analyze market research data to make good decisions.

Graduates of the marketing major find an exciting and broad spectrum of career opportunities in brand/product management, industrial selling, retailing, sales management, advertising, marketing research, customer-service management, and other areas.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 296)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 296)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 297)</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>1</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Humanities
Select 6 credits  

Social Sciences
Select 6 credits  

Natural Sciences
Select 6 credits (At least two courses including one lab)  

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:  
Two years (high school) of a single foreign language  
Two semesters (college) of a single foreign language  
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Total Credits  

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

International Business Component

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits  

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits  

Marketing Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Required Courses
| BUS ADM 461 | Consumer Behavior                               | 9       |
| BUS ADM 462 | Marketing Research                               |         |
| BUS ADM 463 | Marketing Management                             |         |

Major Electives

Choose four courses from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 460</td>
<td>Retail Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 464</td>
<td>Management of Promotion</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 466</td>
<td>Business to Business Sales and Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 468</td>
<td>Internet Marketing</td>
<td></td>
</tr>
</tbody>
</table>
degree and major requirements. A new 10-year time frame would then begin.

**Post-Baccalaureate Options**
The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubars Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.

**Double Majors**
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

**Advising**
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

**Career Services**
The Lubars School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**Honors in the Lubars School of Business**
Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations/) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 271).

**Dean’s Honor List**
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for
honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Nonprofit Management and Leadership, MS (Lubar School of Business)**

**Related Certificates**
- Graduate Certificate in Nonprofit Management (p. 300)

**Overview**
The College of Letters and Science and the Sheldon B. Lubar School of Business offer and present jointly the Master of Science (MS) in Nonprofit Management and Leadership. We are one of only 9 graduate-level programs in the world accredited by the Nonprofit Academic Centers Council (NACC).

Through a rigorous curriculum mapping process, this program was found to meet and surpass requirements in 16 curricular areas vital to nonprofit leaders, including board governance, fundraising, and executive leadership. The review panel found that UWM’s program “unambiguously meets 16 of the 16 major content subject areas through curriculum instruction,” and surpassed requirements in the majority of those categories.

Alumni of this program are consistently found in nonprofit organizations throughout the country working with a variety of missions, in positions of leadership ranging from program oversight to executive leadership and board service.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
To be admitted to the MS in Nonprofit Management and Leadership degree program, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/).

During the admissions process, students will be asked to show evidence of having satisfactorily completed undergraduate or higher level foundation coursework in the principles of accounting and economics. Those students who are unable to show such evidence may be admitted with these academic deficiencies but will then meet with their respective academic advisors to identify and obtain approval for what they must do to remove these deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants must submit the following for review by the Graduate School and the Nonprofit Management Program Faculty Committee:

1. Official transcripts from all colleges or universities previously attended.
2. Three letters of recommendation from persons familiar with the applicant’s academic ability and/or professional achievements.
3. Scores from either the Graduate Record Examination (GRE) (http://graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://graduateschool/admission/#gmat).
4. For those students whose native language is not English, minimum TOEFL score (Test of English as a Foreign Language) of 550 PBT or 79 iBT or minimum IELTS score (International English Language Testing System) of 6.5.
5. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

**Credits and Courses**
The MS in Nonprofit Management and Leadership degree requires satisfactory completion of 39 credits of graduate-level coursework including 33 credit-hours of required courses and 6 credit-hours of elective courses as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introductory</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 718</td>
<td>Concepts and Practice of Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 705</td>
<td>Professionals and Volunteers in Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 793</td>
<td>Law of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 795</td>
<td>Introduction to Nonprofit Revenue Streams and Portfolios</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select one of the following:</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 791</td>
<td>Nonprofit Advocacy and Public Policy</td>
<td></td>
</tr>
<tr>
<td>NONPROF 958</td>
<td>Seminar in Nonprofit Administration: (The Nonprofit Economy)</td>
<td></td>
</tr>
<tr>
<td>NONPROF 740</td>
<td>Executive Leadership of Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td><strong>Capstone</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 730</td>
<td>Strategic Management and Leadership for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td></td>
</tr>
</tbody>
</table>

1. Nonprofit Advocacy and Public Policy
2. Diversity in Organizations
The multi-disciplinary Graduate Certificate in Nonprofit Management is designed to provide students with the knowledge and skills needed to successfully pursue or advance careers within nonprofit sector organizations. Students in degree programs across campus such as urban studies, public administration, business, social welfare, education or the arts, have combined the Graduate Certificate in Nonprofit Management with their degree to further enhance their academic preparation for their particular career goals.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Credits and Courses**

Students wishing to earn a Graduate Certificate in Nonprofit Management must complete the required 15 graduate credit hours. No student may complete all 15 credits within a single school or college. The curriculum consists of the following five courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 718</td>
<td>Concepts and Practice of Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

**Thesis**

Not Required

**Comprehensive Examination**

Not Required

**Time Limit**

The student must complete all degree requirements within seven years of initial enrollment.

**Nonprofit Management, Graduate Certificate (Lubar School of Business)**

The Graduate Certificate in Nonprofit Management is a collaborative effort between the Lubar School of Business, the College of Letters & Science, and other campus units that have research and/or teaching interests in nonprofit management and leadership, nonprofit organizations, the nonprofit sector, and philanthropy. The certificate responds to the growing need for trained professionals to assume management and leadership positions in non-governmental, nonprofit sector organizations.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td></td>
</tr>
<tr>
<td>NONPROF 750</td>
<td>Social Entrepreneurship in the Nonprofit Sector</td>
<td></td>
</tr>
<tr>
<td>NONPROF 765</td>
<td>International Nongovernmental Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 770</td>
<td>Leveraging Technology in the Public and Nonprofit Sectors</td>
<td></td>
</tr>
<tr>
<td>NONPROF 785</td>
<td>Managing Change in Public and Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 921</td>
<td>Nonprofit Administrative Internship</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 461</td>
<td>Organizational Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 920</td>
<td>Seminar in Race and Ethnic Relations</td>
<td></td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 841</td>
<td>Health Policy in Urban Society</td>
<td></td>
</tr>
</tbody>
</table>

1 This course will serve as the integrative “capstone” requirement for the program and must be taken after completing all other required courses (or concurrently with the final required courses).

2 This is a pre-approved but not exhaustive list: Students may request alternative courses offered in other departments at UWM. Please send an email to Program Advisor with a course description and/or syllabus, and stated reasons why the course being proposed is an appropriate fit for the student’s academic and career goals.
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Gainful Employment Disclosure Information
• UWM Financial Aid Gainful Employment (https://uwm.edu/onestop/support-finances/receiving-financial-aid/non-degree-students/#primary)

Public Administration, MPA (Lubar School of Business)
The College of Letters and Science and the Lubar School of Business offer and present jointly the Master of Public Administration (MPA).
The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements and hold a bachelor's degree from an accredited college or university to be considered for admission.

There are no fixed prerequisites in terms of prior academic training; but background in public administration, American governmental institutions, economics, statistics, and computer applications in social science is beneficial. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The MPA program requirements to be considered for admission are:
1. An undergraduate grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons familiar with applicant’s academic ability and achievement.
3. Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).

Candidates seeking admission to the MPA/MUP program must apply to and be admitted to both programs. The requirements for admission to the MUP program are detailed in the Urban Planning section of this Catalog.

Credits and Courses

The Master of Public Administration degree requires satisfactory completion of 39-42 credits of prescribed graduate study and appropriate coursework.

Minimum Grade Requirements in the Core Courses
In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core
Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student’s grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only the highest grade earned; that is, the grade earned in the first attempt at a Core Course will not be averaged with the grade earned in the repeat.)

Core Requirements
Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Track B
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Every student must select and complete the requirements for one of the following three concentrations:

Municipal Management

Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 730</td>
<td>Budgeting for Public Sector Professionals</td>
<td>6</td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI/PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 701 &amp; URBPLAN 702</td>
<td>Introduction to Land Use Planning and Introduction to Planning Law</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select at least 6 elective credits ¹ 6
Total Credits 18

¹ Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Other courses may be substituted with the approval of the MPA Director.

General Public Administration

Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 441</td>
<td>Diversity in Organizations (if not used to satisfy seminar in organizational management requirement)</td>
<td>12</td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/POL SCI 452</td>
<td>Administrative Law</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 705</td>
<td>Government Public Relations and Advocacy</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI/PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select at least 6 elective credits ¹ 6
Total Credits 18

¹ Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Other courses may be substituted with the approval of the MPA Director.

Track A
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

Track

Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration ²</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 39-42

¹ Waived for students with significant experience in the public or nonprofit sector; see Track A.
² Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.
Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

<table>
<thead>
<tr>
<th>Nonprofit Organization and Management</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS ADM 724</td>
<td>Business Combinations and Governmental Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NONPROF 789</td>
<td>Theory and Role of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Select at least 6 elective credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

**Thesis**
Not required.

**Time Limit**
The student must complete all degree requirements within seven years of initial enrollment. Students in the MPA/MUP program are allowed up to seven years to complete all requirements for both degrees.

**Public Administration, MPA/Criminal Justice, MS**
Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MPA program.

**Credits and Courses**

Students accepted into this MS/MPA program complete the following courses:

**MS in Criminal Justice**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>CRM JST 773</td>
<td>Criminological Perspectives</td>
</tr>
<tr>
<td></td>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
</tr>
<tr>
<td></td>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 12 additional credits within the criminal justice program</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 12 additional credits with the consent of the student’s advisor</td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

**Master of Public Administration**

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

**Track A**
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

**Track B**
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td></td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Credits and courses selected by the student with the approval of the MPA Director that relate to the student's substantive interests within the discipline of public administration.
Public Administration, MPA/Urban Planning, MUP

General Public Administration
Select three of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>9</td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/POL SCI 914</td>
<td>Seminar in Intergovernment Relations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td></td>
</tr>
</tbody>
</table>

Concentration
Select 12 credits in CRM JST

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship ²</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 42

1 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

2 An internship is mandatory for students with no public sector work experience.

Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Additional Requirements

Time Limit
Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Public Administration, MPA/Urban Planning, MUP

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (https://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

This program allows students to complete master’s degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits will depend on the student’s track and choice of concentration in public administration.

Required Courses in Urban Planning (27 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 27

Required Courses in Public Administration (18 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one seminar in organizational management and leadership from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 732</td>
<td>Transforming Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

¹ The internship requirement will be waived for students with significant public sector work experience.
Concentration Requirement (18 credits)
Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

Real Estate, Undergraduate Certificate

The Real Estate Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in real estate. Students completing the Real Estate Certificate will have coursework in real estate finance, valuation, environmental real estate issues and property development, as well as real estate law.

This background, when added to a business major, opens career opportunities to students in mortgage banking and commercial real estate lending, commercial leasing and brokerage, appraisal and valuation, real estate investment analysis, and property development and management.

Students may also benefit from becoming student members of the Institute for Real Estate Management (IREM) and the Commercial Association of Realtors Wisconsin (CARW) while pursuing the certificate.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Requirements

The Real Estate certificate is open to all students in good standing seeking a bachelor’s degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor's degree from UWM or any other accredited college or university. Business students completing a real estate certificate may utilize the courses as part of their business elective requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 380</td>
<td>Introduction to Real Estate Markets</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 481</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 482</td>
<td>Valuation of Real Estate</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 483</td>
<td>Property Development and Management</td>
<td></td>
</tr>
</tbody>
</table>

Elective 3

Select one of the following courses:

| BUS ADM 389 | Real Estate Internship                           |         |
| BUS ADM 484 | Real Estate Law                                  |         |
| BUS ADM 485 | Environmental Issues in Real Estate              |         |

Total Credits 15

Note: Non-business majors are required to complete ECON 104 in order to fulfill requirements for this certificate. It also is recommended that students complete BUS ADM 201 and BUS ADM 350 prior to taking BUS ADM 481. A business minor also satisfies the prerequisite coursework for non-business students.

All coursework required for the Real Estate Certificate must be completed with at least a 2.5 GPA in order to post the certificate on the transcript. At least half of the credits required for the certificate must be taken in residence at UWM. Real Estate Certificate courses may not be taken on a credit/no credit basis except for BUS ADM 389.

Supply Chain and Operations Management, BBA

Supply Chain and Operations Management (SCOM) examines the key business processes that take place from “step one” through delivery to the customer. Supply chain management is the integration of all key business processes from original suppliers through end users, and provides products, services, and information that add value for customers and other stakeholders. It includes the supply, storage, and movement of materials, information, personnel, equipment, and finished goods within the organization and between the organization and its environment.

The operations function, within the supply chain, relates to the creation of goods and services through efficient and effective use of personnel, material, and machines, and includes acquisition of resources, planning of production and inventory levels, scheduling of work assignments, and the control of production and quality. Recent concepts in supply chain and operations management include lean operations, Six Sigma, ERP, and mass customization.

Technology is one of the most important facets in supply chain, and the Lubur program emphasizes information technology management, including enterprise resource planning. Other important components include product development lean operations, Six Sigma, and mass customization.

Companies in all sectors of the economy - public and private, manufacturing service, health care, retail and others - recruit SCOM graduates to help them identify competitive issues in the supply chain and develop innovative solutions.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 305)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>General Education Requirements (p. 306)</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 306)</td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>Business Core (p. 306)</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>SCOM Major Requirements (p. 307)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Business Electives</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain Junior standing (56 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
</tr>
<tr>
<td>Or obtain a high enough score on the English Placement Test, ACT-English, or SAT-ERW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td>MATH 105 or MATH 108</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
</tbody>
</table>
Or place high enough on the Math Placement Test

Complete the Business Foundation Courses

With a cumulative GPA of 2.25 or above

Achieve a cumulative GPA of 2.50 or higher

Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar School of Business

Achieve a cumulative UWM GPA of 2.00 or higher

Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.

Complete the Advancement to the Major form

Available in the Undergraduate Student Services office or online

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Quantitative Literacy

Select one of the following (QL-A):

- MATH 105 Introduction to College Algebra
- MATH 108 Algebraic Literacy II

Or equivalent course

Select one of the following (QL-B):

- MATH 208 Quantitative Models for Business
- MATH 211 Survey in Calculus and Analytic Geometry

Or equivalent course

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (At least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Total Credits 24

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

4 Excluding MATH 211, MATH 221, or MATH 231.

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Quantitative Models for Business</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

1 A grade of “B” or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 271) should enroll in the equivalent BUS ADM 207 course.

2 A grade of “C” or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 271) should consider the equivalent BUS ADM 231 course.

3 Or equivalent to MATH 208 or MATH 211.

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

International Business Component

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td></td>
</tr>
</tbody>
</table>
Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 475</td>
<td>Operations Planning and Control</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 476</td>
<td>Logistics and Transportation Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 477</td>
<td>Purchasing and Supply Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 478</td>
<td>Supply Chain Analytics</td>
<td></td>
</tr>
</tbody>
</table>

**Electives** 6

Select two courses from the following list:

- BUS ADM 447 Entrepreneurship
- BUS ADM 450 Intermediate Finance
- BUS ADM 460 Retail Management
- BUS ADM 466 Business to Business Sales and Marketing
- BUS ADM 472 Special Topics in Supply Chain and Operations Management: (subtitle)
- BUS ADM 479 Supply Chain & Operations Management Professional Internship
- BUS ADM 537 Enterprise Systems Concepts and Issues
- BUS ADM 538 Business Process Integration
- BUS ADM 571 Quality and Six Sigma Tools
- BUS ADM 577 Supply Chain Applications, Policy, & Strategy

**Capstone** 3

- BUS ADM 576 Enterprise Planning in the Supply Chain

**Total Credits** 21

Note: The SCOM major required courses represent foundational material for the APICS CPIM certification preparatory course.

Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>12</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 13

Degree Completion Requirements

**Credits**

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

**Grade Point Average**

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

**Residence Requirements**

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Post-Baccalaureate Options**

The above requirements refer to the full requirements of an initial bachelor's degree only. Requirements of a second undergraduate degree are listed on the Lubar School's Policies and Regulations (p. 252). The Accounting major may not be completed as a second undergraduate degree.
Double Majors
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising/) All students should meet with an academic advisor at least once a semester.

Career Services
The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services/) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Accelerated Program Option
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Honors in the Lubar School of Business
Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations/) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 271).

Dean’s Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Taxation, Graduate Certificate
Being a tax professional is a challenging and rewarding career. Tax professionals apply an extensive set of rules to financial information organized by accountants in a variety of organizations. Understanding and applying tax rules is a skill set that is needed in certified public accounting (CPA) firms, law firms, corporations, tax-exempt organizations, and in branches of government. The rules are ever evolving and changing, as are the tools utilized to perform functions such as tax return preparation and tax impact modeling. Considering the global business and tax implications that exist in many organizations today, you have the platform to utilize these skills to provide significant value in any organization.

Obtaining a tax certificate will provide you with advanced training that will allow issue recognition in transactions you are involved with. That may be as a consultant with a CPA or law firm, as part of an organization’s internal financial staff, or as an auditor with a government agency. The courses involved with the certificate will train you to research and apply the rules to the issues identified, with sound factual and legal reasoning resulting in a supportable conclusion. You will further be prepared to apply those conclusions to positions on tax returns or in transaction modeling projects where mitigating the tax impact is essential.

Obtaining a tax certificate will also be a signal to your employer—or prospective employers—that you have a willingness to obtain rigorous training that would be difficult to achieve elsewhere, and a passion to apply that training. The Lubar School of Business tax certificate program offers 6 classes—5 required to obtain the certificate—taught by a combination of professors that bring significant research and teaching credentials and instructors from the business community that bring real-world experience to the classroom.

Candidates for the tax certificate should possess good analytical skills, have a desire to apply complex rules to a given set of facts, and be intellectually satisfied with conclusions that, while supportable, may not be absolute. If you are currently working in a CPA firm, law firm, the financial department of a business that has tax compliance requirements, or in a government revenue department, please consider enrolling in the Lubar School of Business Graduate Tax Certificate program. For admission information, please see next page.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students will be required to have a bachelor’s or master’s degree in business, with a major in accounting or finance, or a Juris Doctor law degree. Coursework must include at least one course in taxation.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 821</td>
<td>Advanced Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 823</td>
<td>Corporate Income Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 828</td>
<td>Taxation of Partnerships, S Corporations, and LLCs</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses

Complete two courses from the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 820</td>
<td>Tax Research, Practice, and Procedure</td>
</tr>
<tr>
<td>BUS ADM 826</td>
<td>Tax Planning for Individuals</td>
</tr>
<tr>
<td>BUS ADM 839</td>
<td>Topics in Taxation: (Tax Issues and Planning for Multi-jurisdictional Businesses)</td>
</tr>
</tbody>
</table>

Total Credits 15

1 Recommended for students that do not have experience in tax research

A Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Technology Entrepreneurship, Graduate Certificate

Admission to the Technology Entrepreneurship graduate certificate program is temporarily suspended.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Technology Entrepreneurship. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor’s degree with an overall GPA of 2.75 or better.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 544</td>
<td>New Product Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 546</td>
<td>Global Innovation Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 741</td>
<td>Management of Technology Ventures</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 742</td>
<td>Technology Innovation and Corporate Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 743</td>
<td>Technology Entrepreneurship Project</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, to fulfill graduation requirements, students will complete pre-approved zero-credit professional activities.
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   • 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
   • 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Technology Entrepreneurship, Undergraduate Certificate

Note: Admission to the Undergraduate Certificate in Technology Entrepreneurship is suspended effective Fall 2017.

The online Certificate in Technology Entrepreneurship is designed for business or engineering students who desire a sequence of undergraduate level courses that focus specifically on Technology Entrepreneurship and that are delivered through an online instructional environment. The focus of the certificate is to prepare students to meet the growing global need for individuals who can think innovatively and successfully pursue the commercialization of their innovative ideas and technological solutions, either independently or within the confines of an established organization. Students who complete this certificate will gain a substantial competitive edge in pursuing a career either as an engineer or as a business specialist by combining their entrepreneurial skills and capabilities with their particular field of expertise. The program will prepare students for fast-track leadership positions in technology-based and/or manufacturing companies.

For more information regarding the application process, business majors may contact Undergraduate Student Services (LUB N297) or call 414-229-5271, and CEAS majors may contact the Student Advising Office (EMS E386) or call 414-229-4667.

Eligibility
Students currently enrolled in a UWM business or engineering undergraduate program (or at any other accredited engineering or business baccalaureate program) are eligible to earn the Certificate in Technology Entrepreneurship. This certificate is also open to business and engineering graduates.

Requirements
In addition, to fulfill graduation requirements, students will complete pre-approved, zero-credit professional activities.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM/MECHENG 542</td>
<td>Introduction to Technology Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 543</td>
<td>Introduction to Technology Management and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 544</td>
<td>New Product Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 546</td>
<td>Global Innovation Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 548</td>
<td>Technology Venturing Project</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Note: A maximum of 6 credits from the Undergraduate Certificate in Technology Entrepreneurship may also count toward other UWM undergraduate degrees.

Graduation Requirements
Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. Students must complete all certificate courses within 3 years of initial enrollment in the certificate program.
EDUCATION (SCHOOL OF)

The University of Wisconsin-Milwaukee School of Education is the state's premier school for the research and practice of urban education.

Here, we prepare our students to be leaders in their profession – as teachers, counselors, administrators, or leader-educators in social service agencies, business, and government. UWM School of Education graduates work in dozens of education-related careers.

Our mission is to prepare our students to meet the unique social and economic challenges facing today's urban, suburban and rural schools. We combine theory and practice – providing students with extensive opportunities for hands-on, practical experiences before they graduate – led by a diverse faculty recognized internationally for scholarship, leadership, and research.

About our programs:
The School of Education offers an array of Bachelor of Science (BS) Programs, five Master’s Degree Programs, and Wisconsin's only PhD in Urban Education. We also offer undergraduate certificates to enhance professional development. Certificates consist of focused coursework designed to provide targeted academic preparation. Certificate programs are available to all UWM undergraduates and to those who already hold a bachelor's degree from any institution.

Continuing Education for Teachers
Teachers who need to earn credits to renew a teaching license to meet local school system or state Department of Public Instruction requirements should contact the Office of Student Services at (414) 229-4271 for information and admission.

Programs

Adult, Continuing, and Higher Education (p. 315)
- Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration (p. 317)
- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 435)
- Support Services for Online Students in Higher Education, Graduate Certificate (p. 321)
- Teaching and Learning in Higher Education, Graduate Certificate (p. 322)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 320)

American Sign Language
- Education, BS: American Sign Language Studies (p. 324)
- Education, BS: Interpreter Training Program (p. 325)
- American Sign Language Studies, Minor (p. 323)

Cognitive and Developmental Sciences (p. 346)
- Educational Psychology, PhD: Cognitive and Developmental Sciences (p. 358)
- Educational Psychology, MS: Cognitive and Developmental Sciences (p. 350)

Community Engagement and Education (p. 327)
- Community Engagement and Education, BS (p. 329)
- Community Engagement and Education, BS: Child and Family Services (p. 330)
- Community Engagement and Education, BS: Child Care (p. 332)
- Community Engagement and Education, BS: Community Leadership (p. 334)
- Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership (p. 336)
- Community Engagement, Minor (p. 341)
- Cultural Foundations of Community Engagement and Education, MS (p. 343)
- Urban Education, PhD: Multicultural Studies (p. 452)
- Urban Education, PhD: Social Foundations of Education (p. 455)
- Community Engagement, Undergraduate Certificate (p. 338)
- Community Leadership, Undergraduate Certificate (p. 341)
- Community-Based Organizations: Policy and Leadership, Undergraduate Certificate (p. 342)
- Youth Work, Undergraduate Certificate (p. 346)
- Educational Policy, Graduate Certificate (p. 344)

Counseling (p. 346)
- Educational Psychology, PhD: Counseling Psychology (p. 360)
- Educational Psychology, MS: Clinical Mental Health Counseling (p. 349)
- Educational Psychology, MS: School Counseling (p. 352)
- School Counseling, Graduate Certificate (p. 366)
- Trauma Informed Care, Graduate Certificate (p. 368)
- Counseling, Minor (p. 348)

Early Childhood Education (p. 369)
- Education, BS: Early Childhood (p. 399)
- Curriculum and Instruction, MS: Early Childhood Education (p. 379)
- Urban Education, PhD: Curriculum and Instruction (p. 441)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

Educational Administration (p. 315)
- Administrative Leadership, MS: Educational Administration and Supervision (p. 318)
- Urban Education, PhD: Educational Administration (p. 443)
- Administrative Leadership Specialist, Graduate Certificate (p. 316)
- Educational Studies, BS (p. 319)

Educational Statistics and Measurement (p. 346)
- Educational Psychology, PhD: Educational Statistics and Measurement (p. 363)
- Educational Psychology, MS: Educational Statistics and Measurement (p. 351)

English Education (p. 369)
- Education, BS: Early Adolescence - Adolescence Level: English (p. 396)
- Curriculum and Instruction, MS: English Education: Creative Writing (p. 380)
- Curriculum and Instruction, MS: English Education: Literature and Cultural Theory (p. 381)
- Curriculum and Instruction, MS: English Education: Media, Cinema, and Digital Studies (p. 382)
- Curriculum and Instruction, MS: English Education: Rhetoric and Professional Writing (p. 383)
- Urban Education, PhD: Curriculum and Instruction (p. 441)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

**Interdisciplinary**

• Curriculum and Instruction, MS: Cultures and Communities Education (p. 378)
• Arts Integration and Learning, Undergraduate Certificate (School of Education, Department of Teaching and Learning) (p. 372)
• Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 320)
• Urban Education, PhD: Art Education (p. 438)

**Mathematics Education (p. 369)**

• Education, BS: Early Adolescence - Adolescence Level: Math (p. 388)
• Curriculum and Instruction, MS: Mathematics Education (p. 384)
• Curriculum and Instruction, MS: Mathematics Teacher Leadership (p. 385)
• Urban Education, PhD: Mathematics Education (p. 449)
• Mathematics Teacher Leadership, Graduate Certificate (p. 429)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

**Middle Childhood-Early Adolescence Education (p. 369)**

• Education, BS: Elementary Education (p. 408)
• Curriculum and Instruction, MS (p. 378)
• Urban Education, PhD: Curriculum and Instruction (p. 441)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

**Reading Education (p. 369)**

• Curriculum and Instruction, MS: Reading Education (p. 386)
• Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate (p. 428)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

**School Psychology (p. 346)**

• Educational Psychology, PhD: School Psychology (p. 355)
• Educational Psychology, MS: School Psychology (p. 354)
• School Psychology, EdS (p. 367)
• Children's Mental Health for School Professionals, Graduate Certificate (p. 347)

**Science Education (p. 369)**

• Education, BS: Early Adolescence - Adolescence Level: Science (p. 391)
• Curriculum and Instruction, MS: Science Education (p. 387)
• Urban Education, PhD: Curriculum and Instruction (p. 441)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

**Social Studies Education (p. 369)**

• Education, BS: Early Adolescence - Adolescence Level: Social Studies (p. 393)
• Curriculum and Instruction, MS: Urban Social Studies (p. 388)
• Urban Education, PhD: Curriculum and Instruction (p. 441)

• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)
• Global Educator, Undergraduate Certificate (p. 426)

**Second Language Education (p. 369)**

• Education, BS: Early Childhood-Adolescence: World Language (p. 404)
• Education, BS: Early Childhood-Adolescence: English as a Second Language (p. 402)
• Bilingual Education (Supplemental), Minor (p. 377)
• English as a Second Language, Minor (p. 413)
• World Language, Minor (p. 431)
• Curriculum and Instruction, MS (p. 378)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)

**Special Education (p. 369)**

• Exceptional Education, BS: Early Childhood (p. 418)
• Exceptional Education, BS: K-12 Special Education (p. 420)
• Exceptional Education, BS: Early Adolescence - Adolescence (p. 414)
• Education, BS: Inclusion and Accessibility Studies (p. 412)
• Inclusion and Accessibility Studies, Minor (p. 427)
• Exceptional Education, MS (p. 423)
• Urban Education, PhD: Exceptional Education (p. 446)
• Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)
• Autism Spectrum Disorders, Graduate Certificate (p. 374)
• Autism Spectrum Disorders, Undergraduate Certificate (p. 376)
• Assistive Technology and Design, Graduate Certificate (p. 373)
• Transition for Students with Disabilities, Graduate Certificate (p. 430)

**Urban Education (p. 433)**

• Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 435)
• Urban Education, PhD: Art Education (p. 438)
• Urban Education, PhD: Curriculum and Instruction (p. 441)
• Urban Education, PhD: Educational Administration (p. 443)
• Urban Education, PhD: Exceptional Education (p. 446)
• Urban Education, PhD: Mathematics Education (p. 449)
• Urban Education, PhD: Multicultural Studies (p. 452)
• Urban Education, PhD: Social Foundations of Education (p. 455)

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.
• Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations
Academic Regulations
For information on academic actions for unsatisfactory grades, see Academic Policies (p. 22), University-Wide Academic Action Policy.

Admission to Program (Advance to Major)
Students in all programs, except Community Engagement and Education, must apply for admission to the School of Education. Students who apply to the School of Education must meet the minimum admission requirements of the School and of their program that exist at the time of their admission application.

Application Submission and Review
Application periods for admission vary by program. Most programs have September and January deadlines. Contact the Office of Student Services each semester for details.

All applications are reviewed by faculty of the appropriate department. If admission is deferred or denied, the student may consult with the appropriate department chairperson and/or request a hearing under appeals procedures. The School of Education reserves the right to limit admission due to staffing and space limitations. Enrollment as a pre-education student and/or meeting the minimum requirements does not guarantee admission to a professional education major in the School of Education.

A student who transfers from one program to another within the School must re-apply and meet requirements in effect for that program at the time of transfer.

Re-entering Students
Students who do not maintain continuous enrollment/registration at the university should meet with their advisor upon re-entry. It is possible that the program requirements were revised in their absence.

If a student is out for more than one full semester (not including Summer Session), the student must meet the program and graduation requirements in effect at the time of his or her return. Options will be discussed on a case-by-case basis.

An admitted student who has not been enrolled for two or more semesters may be required to re-apply for admission. Students admitted into the post-baccalaureate program have five years from the semester of admission to complete their program.

Post-Baccalaureate Certification Program
Students who already hold a bachelor’s degree and seek certification must meet the following minimum criteria when submitting an application: completion of a bachelor’s degree, a cumulative undergraduate grade point average of 2.5, and passing basic skills test scores. Applicants to the Early Adolescence Through Adolescence programs are required to have a minimum GPA of 2.75 in their majors.

Students interested in a post-baccalaureate certification program in Curriculum and Instruction will be denied admission if they have a grade of C- or below in any prior student teaching experience, or if they have been previously counseled out of student teaching and/or have graduated without certification from a teacher education program because of poor performance in student teaching.

Additional criteria may be required for some programs. For specific admission and program information, contact the Office of Student Services.

Please refer to specific programs for additional information on program admission requirements.

Advisement Report
Students who have been admitted to a major will have an Advisement Report indicating course requirements completed as well as those needed. The Advisement Report assists students in planning future semesters, and is one of the documents used in clearing Education students for graduation. Community Engagement and Education students contact the Department of Educational Policy and Community Studies for their summaries and graduation clearance.

Enrollment Plans for Undergraduate Programs
Community Engagement and Education students enroll in the School of Education through the Department of Educational Policy and Community Studies. Students planning to major in Educational Studies or in any
teacher education program register as pre-education students. They follow the general curriculum requirements of their proposed major in the School of Education and are advised by faculty and staff in the School. All academic actions such as adds, drops, permission to continue, withdrawals, etc., are approved by designated staff in the School of Education.

Requirements

Individual Program Requirements

Specific program requirements are listed in each program section. To be admitted, students must apply to and be accepted into a specific program. Academic major/minor forms for Early Adolescence Through Adolescence education majors and proposal forms for all other programs require the faculty advisor's signature prior to submitting the application to be accepted into a specific program. Applicants should follow specific admission procedures for their program.

Substitution for Requirements

Any variations from the approved curriculum in the student’s program must be approved in writing by the student’s faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

Degree Requirements

1. Satisfactory completion of a minimum of 128 credits or 120 credits, depending on program and the requirements of the student’s curriculum.
2. Satisfactory completion of the School of Education core curriculum requirements and the University’s General Education Requirements. See individual department and program general education core curriculum requirements for the credits required and the distribution.
3. For professional education certification programs, a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives that do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.
4. Completion of the last year of work (30 credits) in residence at UW-Milwaukee. Special permission to earn credits on another campus of the UW System, at another institution, or through correspondence work from the UW Extension must be obtained in advance. Students should meet with their academic advisor. Students who transfer to UWM from any accredited institution must take a minimum of 18 hours of graded credits at UWM to establish a GPA for graduation.

Change in Requirements

When a change in program or graduation requirements is adopted, students currently enrolled may complete either the new requirements or those in effect at the time of their admission to the School of Education, but not a combination. Changes in state requirements for teacher certification may lead to changes in requirements in a student’s program. Satisfaction of state requirements is necessary for eligibility for teacher certification.

Semester Course Load

An overload for undergraduate and special students in the School of Education is 18 or more credit hours during a regular semester. Students who want to take an overload during a regular semester should contact their academic advisor.

Any student in the School of Education who takes an unapproved overload will not be permitted to count the overload credits toward graduation and/or certification. The particular credits that would not be counted toward graduation will be designated by the student’s advisor and approved by the Associate Dean for Academic Affairs.

Field Experience

Students are required to complete a full-day/full-semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching. For information, please call (414) 229-4352.

Employment, Licensing, or Professional Organization Requirements

Applicants to School of Education programs that involve student teaching, practicum, internship, or other field placements must complete an information disclosure statement and be subject to a criminal background check to comply with placement site requirements and state regulations. Criminal background checks are required by state law to help employers and government officials in making employment and licensing decisions. The Wisconsin Department of Public Instruction (DPI) conducts a check as part of licensing. Agencies regulated by the Division of Health and Family Services must have on file a criminal background check for persons who have access to clients within caregiving organizations, including students.

Students in a program with a clinical experience must undergo a criminal background check at the time of admission to the School of Education, or prior to placement in a major clinical experience if that occurs earlier. The student will be charged the cost of the background check administered through School of Education procedures. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Contact the Office of Clinical Experiences for further details.

Teacher License Applications

Wisconsin Department of Public Instruction (DPI) License Application Forms and information about applying for a teaching license may be obtained from the Office of Student Services, Enderis Hall, Room 209, or by calling (414) 229-4153.

A departmental recommendation for certification is required. This recommendation is not automatic upon graduation or completion of a post-baccalaureate certification program. After all program requirements have been completed, a student may submit a license application to the Office of Student Services, Enderis 209, for processing.

The DPI conducts a criminal background check of each applicant for a teaching license. If you have ever lived, worked, or attended school outside of Wisconsin since the age of 18, you are also required to complete fingerprint cards as part of your criminal background check. Based on this information, an applicant may be denied a license even if recommended for certification by the University. The DPI takes 12 to 16 weeks to process an endorsed license.

Special Opportunities

Departmental Examinations

Departments may grant degree credit to a student who, instead of taking a course, requests and passes an examination administered by the department on the content of that course.
Permission to take such examinations must be obtained from the Associate Dean for Academic Affairs, Enderis Hall 583, who will require a recommendation from the department chairperson or program director to whom evidence of work justifying an examination must be presented by the student.

Study Abroad

Qualified students can complete equivalent coursework in another country. For information, consult the Office of Student Services, Enderis Hall 209.

Administration

Alan Shoho
Dean

Hope Longwell-Grice
Associate Dean, Academic Affairs

Jeremy Page
Assistant Dean, Office of Student Services

Contact Information

Office of Student Services
Enderis Hall, 209
Phone: (414) 229-4721
http://uwm.edu/education/

The Department of Administrative Leadership develops the education field's next generation of change-makers. As an educational leader, you'll have the vital skills needed to nurture leadership among others in a wide range of elementary, secondary, and post-secondary programs, as well as in business and industry.

We have two areas of study: Adult, Continuing, and Higher Education Administration, which focuses on post-secondary adult and continuing education leadership and administration at higher education organizations; and Educational Administration, which focuses on elementary and secondary educational administration. Concentrations are available at the master's and doctoral levels.

The Adult, Continuing, and Higher Education Administration master's concentration prepares students to advance their administrative leadership skills, improve instructional design of professional development, or succeed in a variety of roles in colleges and universities. A major focus of our program is preparing leaders for urban higher education institutions who honor diversity and difference among people, groups and societies.

The primary mission of the specialization in Adult, Continuing, and Higher Education Leadership (ACHEL) doctoral specialization in Urban Education is to prepare individuals for leadership positions in urban adult, continuing, and higher educational organizations. The specialization will assist students to examine changing perspectives on urban post-secondary, adult and continuing educational organizations; changing notions of urban adult, continuing, and higher education teaching and learning; and the changing roles of the students, teachers, researchers, and administrators who work and study within urban adult, continuing, and higher education organizations.

Our rigorous Educational Administration program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today's challenging educational landscape.

The Department of Administrative Leadership is committed to developing educational leaders, particularly for service in metropolitan areas. We believe that excellent educational leaders nurture leadership among others in the school community; create positive work environments for students, staff and parents; and contribute to the improvement of teaching and learning.

Programs

- Administrative Leadership Specialist, Graduate Certificate (p. 316)
- Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration (p. 317)
- Administrative Leadership, MS: Educational Administration and Supervision (p. 318)
- Educational Studies, BS (p. 319)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 320)
- Support Services for Online Students in Higher Education, Graduate Certificate (p. 321)
- Teaching and Learning in Higher Education, Graduate Certificate (p. 322)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Cheryl Baldwin</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Illinois at Urbana</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delbert K. Clear</td>
<td>Associate Professor</td>
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<tr>
<td>Carol Colbeck</td>
<td>Professor</td>
<td>PhD</td>
<td>Stanford University</td>
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<tr>
<td>Simone Conceição</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Barbara Daley</td>
<td>Professor</td>
<td>PhD</td>
<td>Cornell University</td>
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<tr>
<td>James Fisher</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Elise Frattura</td>
<td>Professor</td>
<td>EdD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>William Kritek</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Larry G. Martin</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Liliana Mina</td>
<td>Clinical Assistant Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
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</table>
Administrative Leadership Specialist, Graduate Certificate

A master’s degree is the minimum prerequisite for admission to the Specialist Certificate. The Certificate offers a career emphasis in the superintendency and licensure as a school district superintendent.

Our rigorous program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today’s challenging educational landscape.

The Department of Administrative Leadership is committed to developing educational leaders, particularly for service in metropolitan areas. We believe that excellent educational leaders nurture leadership among others in the school community; create positive work environments for students, staff and parents; contribute to the improvement of teaching and learning; and engage in practices that ensure equity and access for all students.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants must meet these departmental requirements:

- Completion of a master’s degree with a graduate grade point average of 3.5 or above (4.0 scale). The master’s degree may be in any field.
- Written statement of professional objectives and educational experience.
- Applicants not meeting the grade point minimum may be admitted upon submission of additional data to be specified by the Department chair.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Credit and course requirements depend upon the applicant’s degree field. For an applicant with a master’s degree in educational administration, the minimum credit requirement is 21 graduate credits, normally distributed as follows: 18 credits in administrative leadership, and 3 credits in a field-based practicum. As a capstone requirement, students must develop and submit a comprehensive portfolio which includes an action research project for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense. For an applicant with a master’s degree in a field other than educational administration, the minimum credit requirement is 24 graduate credits. Additional coursework may be required for administrative certification.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration**

The master’s concentration in adult, continuing, and higher education administration prepares the student for positions of administration and leadership in business, community, and higher education environments. These environments can allow the student obtain careers as adult educators, trainers, human resource directors and administrators in vocational and technical education, university extension, continuing professional education; student advisors, managers of support programs for traditionally underrepresented students, student housing specialists, student programming specialists, business managers, and administrative positions at all levels of postsecondary education.

Students in the master's degree with the concentration in adult, continuing, and higher education administration can jointly earn a certification in Teaching and Learning in Higher Education or a certificate in Support Services for Online Students in Higher Education. In this case, the student must complete an application (including the application fee) for both programs (master's program and certificate program).

The master's degree programs are offered online and hybrid.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) to be considered for admission to the program.

**Credits and Courses**

Minimum degree requirement is 33 graduate credits, 24 of which must be in education and up to 9 of which may be in related fields. Credit distribution must be:

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ACHEA Specialty Area</td>
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<td>Related Electives</td>
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<td>Total Credits</td>
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The student must plan an individual program of studies in consultation with the faculty advisor.

**Required Core Courses**

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<thead>
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<tr>
<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
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<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
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<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
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<td>AD LDSP 777</td>
<td>Leadership in Multicultural Organizations</td>
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<td>AD LDSP 787</td>
<td>Administration of Adult Education Programs</td>
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<tr>
<td>AD LDSP 886</td>
<td>Developing Your ePortfolio in ACHEA (Capstone Course)</td>
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</table>

**Specialty Area: Higher Education Administration**

<table>
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<td>AD LDSP 709</td>
<td>Introduction to Higher Education Administration</td>
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<td>AD LDSP 711</td>
<td>Organization and Governance in Higher Education Administration</td>
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<td>AD LDSP 747</td>
<td>Strategic Planning and Budgeting in Adult, Continuing, and Higher Education</td>
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<td>AD LDSP 778</td>
<td>Introduction to College Student Personnel Administration</td>
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<td>AD LDSP 797</td>
<td>The Student in the Collegiate Context</td>
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<td>AD LDSP 886</td>
<td>Developing Your ePortfolio in ACHEA (Capstone Course)</td>
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**Elective Courses**

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<tr>
<td>AD LDSP 507</td>
<td>Introduction to Group Leadership</td>
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<tr>
<td>AD LDSP 605</td>
<td>Survey of Human Resource Development</td>
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<td>AD LDSP 607</td>
<td>Coordination of Staff Development and Training Program</td>
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<td>AD LDSP 617</td>
<td>Leadership in Youth-Serving Organizations</td>
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<tr>
<td>AD LDSP 630</td>
<td>Field Work in Schools, Agencies and Institutions</td>
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<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
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<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
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<tr>
<td>AD LDSP 703</td>
<td>Resources for Self-directed Learning</td>
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<td>AD LDSP 704</td>
<td>Technologies for Online Student Support</td>
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<td>Professional Development for Online Instruction</td>
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<td>AD LDSP 708</td>
<td>Online Support Services in Adult, Continuing, and Higher Education</td>
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<td>AD LDSP 710</td>
<td>Organizational Change and Team Leadership</td>
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<td>AD LDSP 737</td>
<td>Distance Education for Adults</td>
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<td>AD LDSP 740</td>
<td>Seminar in Innovative Technologies for Learning in Education</td>
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<td>AD LDSP 795</td>
<td>Women and Leadership in Education</td>
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AD LDSP 827 Seminar in Adult and Organizational Learning 3
AD LDSP 897 Seminar in the Philosophy and History of Adult, Continuing & Higher Education 3
AD LDSP 900 Role of the Professoriate 3
AD LDSP 967 Seminar in Urban Adult, Continuing, and Higher Education 3
AD LDSP 978 Seminar in Student Personnel Administration 3

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the program of studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Thesis or Master’s Paper
Optional. See Credits and Courses above.

Final Portfolio
As a capstone requirement, students who begin the program fall 2011 and thereafter must develop and submit a comprehensive portfolio for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense.

Comprehensive Examination
Students who began the program before Fall 2011 have the option of passing a written and/or oral final comprehensive examination as the capstone requirement.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Administrative Leadership, MS: Educational Administration and Supervision

The master’s concentration in educational administration and supervision prepares the student for a career as a school district administrator, elementary, middle, or secondary school administrator, director of special education and pupil services, school business manager, or curriculum director. Through this program of studies, the student can fulfill professional education requirements for administrative and supervisory licenses in Wisconsin and most other states.

Our rigorous program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today’s challenging educational landscape.

The master’s degree programs are offered online and hybrid.

The Department also offers a course of study leading to the Specialist Certificate in Administrative Leadership (http://uwm.edu/graduateschool/administrative-leadership-certificate/)—required for the school superintendency and recommended for other school or adult education administrative or supervisory positions.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) to be considered for admission to the program.

Credits and Courses

Minimum degree requirement is 33 graduate credits, 27 of which must be in education and 6 of which may be in related fields. Credit distribution must be: 18-24 credits in educational administration and supervision; 9-15 credits in related electives, of which 6 credits may be earned through a thesis or master’s paper.

The student plans an individual program of studies in consultation with a major professor. If the student intends to apply for the Specialist Certificate upon completion of the master’s degree, the program of studies may satisfy Specialist Certificate admission requirements.

Required Core Courses

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<tr>
<th>Code</th>
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<td>AD LDSP 702</td>
<td>Leadership in Educational Organizations</td>
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<td>AD LDSP 710</td>
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<td>AD LDSP 712</td>
<td>Instructional Leadership</td>
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<td>AD LDSP 732</td>
<td>The Politics of Education</td>
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<td>AD LDSP 752</td>
<td>School Law</td>
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<td>AD LDSP 762</td>
<td>Management of Educational Resources</td>
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Courses Related to Specific Administrative Licenses

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<td>AD LDSP 772</td>
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<td>AD LDSP 780</td>
<td>Internship in Student Service Administration</td>
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<td>AD LDSP 782</td>
<td>Principals Field Practicum</td>
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<td>AD LDSP 800</td>
<td>Administration of the School Plant</td>
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<td>AD LDSP 805</td>
<td>Legislative and Legal Aspects of Special Education</td>
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<td>AD LDSP 812</td>
<td>Educational Personnel Administration and Supervision</td>
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<td>AD LDSP 842</td>
<td>Program Planning and Evaluation in Education</td>
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<td>AD LDSP 852</td>
<td>Collective Bargaining and Contract Administration in Education</td>
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</tr>
<tr>
<td>AD LDSP 862</td>
<td>School Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

or BUSMGMT 707 Information Technology Management in International Businesses
Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the program of studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Thesis or Master’s Paper
Optional. See Credits and Courses above.

Final Portfolio
As a capstone requirement, students who begin the program fall 2011 and thereafter must develop and submit a comprehensive portfolio for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense.

Comprehensive Examination
Students who began the program before Fall 2011 have the option of passing a written and/or oral final comprehensive examination as the capstone requirement.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Educational Studies, BS

As of Fall 2017, the Educational Studies program has suspended admission. This means that unless you have been accepted into this program prior to Fall 2017, you will not be able to earn the degree. The following information is provided solely for the benefit of students accepted into the Educational Studies program prior to Fall 2017.

Requirements
A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURREN 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEDU 790</td>
<td>Administration of Pupil Services</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEDU 960</td>
<td>Seminar: Administration/Supervision of Programs for Exceptional Individuals</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Studies Second Degree Requirements

1. Complete 42 credits.
   - At least 30 of the program credits must be earned in residence at the University of Wisconsin-Milwaukee and following admission to the Educational Studies Program. The remaining 12 credits may be transferred from previous institutions/programs or earned inclusively within the Educational Studies program.
   - At least 20 of the 42 credits must be earned in upper-division courses (300 level or above). The common learning components allow for accommodation of this requirement.

2. Earn at least 18 credits in selected focus areas. Select from: adult education, youth leadership, and training and workforce development.
   - Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor. The fieldwork placement will be determined by the faculty advisor.
   - Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor.

3. Achieve a 2.75 GPA on all focus area and common learning components credits.

Honors in the School of Education

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for...
honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership)
The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s, or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences and Schools of Nursing and Education, and is coordinated through the College of Nursing.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/+).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor’s degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

Credits and Courses
The completion of 15 credit hours (5 courses) is required for the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
<tr>
<td>Curriculum/Program Planning &amp; Evaluation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 607</td>
<td>Coordination of Staff Development and Training Program</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
<td></td>
</tr>
<tr>
<td>NURS 752</td>
<td>Curriculum Development in Nursing Education</td>
<td></td>
</tr>
<tr>
<td>Teaching/Instructional Strategies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 827</td>
<td>Seminar in Adult and Organizational Learning</td>
<td></td>
</tr>
<tr>
<td>NURS 705</td>
<td>Instructional Strategies for Patient Education</td>
<td></td>
</tr>
<tr>
<td>Elective Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 867</td>
<td>Seminar in Continuing Education in the Professions</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 787</td>
<td>Administration of Adult Education Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 547</td>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td></td>
</tr>
<tr>
<td>NURS 764</td>
<td>Changing Health Behaviors</td>
<td></td>
</tr>
<tr>
<td>CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td>NURS 751</td>
<td>Teaching in Practice Disciplines</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

A current listing of courses that meet these requirements can be obtained from the College of Health Sciences or the College of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   •  Degree programs must approve the courses from certificates that can double count toward the degree.
   •  All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   •  Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   •  18 or fewer credits/Three years from initial enrollment in the certificate sequence.
   •  19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Support Services for Online Students in Higher Education, Graduate Certificate

This graduate certificate program offers a unique opportunity for professionals interested in online student support in higher education. Prospective professionals venturing into today's higher education environment would benefit from an understanding of teaching and learning and student support service theory, research, and effective practice. Successful professionals require many tools to educate, motivate, and support online students, as well as the wisdom to know when and how to apply those tools. This wisdom comes from a critical, reflective understanding of the research and theory behind teaching, learning, and student support. The 15-credit certificate program draws upon current coursework in Adult Education, Higher Education, Education Technology, and Distance Education.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants must have completed a bachelor's degree prior to admission, and must have a minimum 2.75 cumulative undergraduate grade point average.

Application
•  Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
•  All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
•  Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
•  Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 703</td>
<td>Resources for Self-directed Learning</td>
<td>6</td>
</tr>
<tr>
<td>AD LDSP 704</td>
<td>Technologies for Online Student Support</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 706</td>
<td>Professional Development for Online Instruction</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 708</td>
<td>Online Support Services in Adult, Continuing, and Higher Education</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in courses not taken in the core or from the following:</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 740</td>
<td>Seminar in Innovative Technologies for Learning in Education</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 778</td>
<td>Introduction to College Student Personnel Administration</td>
<td></td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>INFOST 521</td>
<td>Introduction to Reference Services and Resources</td>
<td></td>
</tr>
<tr>
<td>INFOST 734</td>
<td>Library Services and Resources for Adults</td>
<td></td>
</tr>
<tr>
<td>Practicum</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

1,2 Practicum is a requirement for students in the certificate program.
Certificate program time limits shall be established as follows:

<table>
<thead>
<tr>
<th>Time Limit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articulation with Degree Programs</td>
<td>Taken at UWM is required. A minimum cumulative 3.00 grade point average in certificate courses must be approved by the director of Graduate School transfer policy and must be completed within the time limit for transfer credit. These courses are subject to evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.</td>
</tr>
</tbody>
</table>

Descriptions of required and elective courses offered at UWM as part of the Certificate in Support Services for Online Students in Higher Education can be found under the respective curricular areas (see below).

- Administrative Leadership (Ad Ldsp)
- Educational Psychology (Ed Psy)
- Information Studies (Info St)

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Teaching and Learning in Higher Education, Graduate Certificate
This graduate certificate program offers a unique opportunity for students interested in teaching in higher education to gain knowledge about teaching and learning, both generally and within their discipline. Prospective teachers venturing into today’s higher education environment would benefit from an understanding of teaching and learning theory, research, and effective practice. Successful instructors require many tools to teach, as well as the wisdom to know when and how to apply those tools. This wisdom comes from a critical, reflective understanding of the research and theory behind teaching and learning. The 15-credit certificate program is multi-disciplinary, drawing upon current coursework in Communication, the School of Education, and other disciplines that have teaching and learning courses in place.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants must have completed a bachelor's degree prior to admission, and must have a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.00 graduate grade point average.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Select two of the following:

- 18 or more credits/Four years from initial enrollment in the certificate sequence.
Successful completion of this certificate is NOT a teaching license or credential for K-12 instruction.

### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

#### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

### American Sign Language Studies, Minor

The American Sign Language (ASL) Studies minor area addresses the needs of students who are already pursuing a major in another area of study, but want to supplement their studies with knowledge and skill in ASL. This will allow students to be able to communicate with Deaf persons they may meet in their professions.
Requirements
Students must have a minimum grade of C or better in all ASL minor coursework.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 30

Education, BS: American Sign Language Studies
The American Sign Language Studies Program offers an array of courses to prepare students to work with the Deaf community. Students completing this program will have a deeper understanding of American Sign Language (ASL), Linguistics, Deaf History, Deaf Literature and Deaf Culture with an emphasis on the rich language and cultural diversity of the Deaf community as well as the social justice issues impacting their lives.

Several objectives will be covered during the program, such as Deaf culture, Deaf folklore, and Deaf literature, and the relationship between the signing community and the non-signing community. This program also covers linguistic components with several course offerings in ASL as well as specialized skill areas of ASL, such as a focus on grammatical structure and an overview of linguistic components.

Professions that find this program an enhancement to their work include (but are not limited to): interpreting, health care, criminal justice, education, exceptional education, psychology, social work and more. Many of the courses offered through this program also satisfy certain GER requirements for the general student population such as foreign language (ASL I-IV) and cultural diversity (Deaf Culture or Deaf History).

All students start with ASL I however if a student has previous experience with the language, they may be placed into higher classes by taking the American Sign Language Proficiency Interview (ASLPI) and may be eligible for retroactive credits if they meet all requirements.

Requirements
General Education Requirements (GERs)
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Program Admission Requirements (p. 324)
Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 358</td>
<td>ASL/English Linguistics I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 363</td>
<td>ASL/English Linguistics II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 500</td>
<td>Fingerspelling &amp; Numbers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 520</td>
<td>ASL Literature</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 548</td>
<td>Introduction to the Profession of Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 655</td>
<td>Introduction to Education of Individuals Who are Deaf and Hard of Hearing</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 48

Additional Requirements for Graduation
• Minimum grade of C or better in all professional coursework.
• At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program.
• Completion of a minimum 128 degree credits.

Advance to Major
Program Admission Requirements
• English Composition: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 with a grade of C or better.
• Mathematics Skills: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 105, MATH 175, or equivalent with a grade of C or better.
• Completion of COMMUN 101 or COMMUN 103, with a grade of C or better.
• Completion of ASL GER requirements.
• Maintain a cumulative 2.5 GPA

Undergraduate Advising
Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and
supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**
- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**
Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
soeinfo@uwm.edu

**Walk-In Hours**
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

**Graduate Advising**
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

**Honors in the School of Education**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Education, BS: Interpreter Training Program**
The Interpreter Training Program (ITP) goes beyond teaching students about language, culture, and how to facilitate conversations. Our program philosophy of service takes hold the moment you begin. We work to develop well-rounded interpreters who value and consider others’ perspectives; students who are culturally sensitive and empathetic practitioners who continually work to better themselves and the interpreting profession.

We also work hard to ensure that graduates reach their career goals, and we pride ourselves on the success our former students have achieved through their work in our community. In a recent survey of the past five graduating classes, 80% of ITP graduates were working as interpreters and 76% reported finding work within three months of graduation. In general, the interpreting and translation field is growing much faster than other occupations, and ASL interpreters are especially sought-after.

**Requirements**

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GER Competency Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part A</td>
<td></td>
<td></td>
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<tr>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td>0-3</td>
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<tr>
<td>Oral and Written Communication, Part B</td>
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<tr>
<td>Complete a GER-OWCB approved advanced course with a grade of C or better</td>
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<tr>
<td>Quantitative Literacy, Part A</td>
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<tr>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
<td>0-3</td>
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<tr>
<td>Quantitative Literacy, Part B</td>
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<tr>
<td>Complete a GER-QLB approved advanced course with a grade of C or better</td>
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<tr>
<td>Foreign Language</td>
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<td></td>
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<tr>
<td>Complete one of the following:</td>
<td>0-6</td>
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</tr>
<tr>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
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</tr>
<tr>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
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<td></td>
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<tr>
<td>Demonstrate language proficiency on approved exam</td>
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<tr>
<td><strong>GER Distribution Requirements</strong></td>
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<tr>
<td>Arts</td>
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<td>Select one approved GER-A designated course</td>
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<tr>
<td>Humanities</td>
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<td>Select two approved GER-HU designated courses</td>
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<tr>
<td>Social Sciences</td>
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<td></td>
</tr>
<tr>
<td>Select two approved GER-SS designated courses</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Natural Sciences  
Select one approved GER-NS or GER-NS+ designated course 
Select one approved GER-NS+ designated course, which includes a lab component 

Cultural Diversity  
Select one approved GER-CD designated course 

Total Credits  30-42

Program-specific requirements (including those prior to program admission) fulfill, or partially fulfill, University GER requirements. See Program Core for specific courses.

Program Core
American Sign Language I-VI courses in the Department of Exceptional Education satisfy University foreign language requirements. For all programs that require American Sign Language, students with previous experience in American Sign Language can take the American Sign Language Proficiency Interview (ASLPI) to determine appropriate placement level. If a B or better is received on the ASLPI, credit will be received for courses up through ASL 4. Any individual who would like to take the ASLPI will be responsible for the cost of the assessment. Please call (414) 229-5251 for more information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I (With a grade of C or better)</td>
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</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II (With a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 320</td>
<td>Introduction to Interpreting: English to American Sign Language (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 321</td>
<td>Introduction to Interpreting: American Sign Language to English (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 348</td>
<td>Introduction to the Profession of Interpreting (With a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture (With a grade of C or better; GER-SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

Unsequenced
THEATRE 111  | Theatre Games (GER-A)                                                  | 3       |
COMMUN 103   | Public Speaking (GER-HU)                                               | 3       |
EXCEDUC 330  | Deaf History (GER-SS)                                                  | 3       |

Highly recommended:
LINGUIS 100  | The Diversity of Human Language (GER-CD, HU)                           | 3       |
LINGUIS 210  | Power of Words (GER-CD, HU)                                            | 3       |

Language and Licensure Requirements
ED PSY 330  | Introduction to Learning and Development                               | 3       |
EXCEDUC 300  | The Exceptional Individual                                             | 3       |
EXCEDUC 510  | Classifiers                                                           |          |
or EXCEDUC 520 | ASL Literature                                                        |          |

Total Credits  51

Admission to Program (p. 327)
Professional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Fall I
| EXCEDUC 345  | Foundations of English to ASL Interpreting                            | 3       |
| EXCEDUC 347  | Foundations of ASL to English Interpreting                            | 3       |
| EXCEDUC 349  | Field Work: Interacting in the Deaf Community I                       | 3       |
| EXCEDUC 358  | ASL/English Linguistics I                                             | 3       |
| Spring I
| EXCEDUC 335  | Educational Interpreting I                                            | 3       |
| EXCEDUC 336  | Postsecondary Interpreting I                                          | 3       |
| EXCEDUC 337  | Video Relay Services Interpreting I                                   | 3       |
| EXCEDUC 354  | Field Work: Interacting in the Deaf Community II                      | 3       |
| EXCEDUC 363  | ASL/English Linguistics II                                            | 3       |
| EXCEDUC 371  | Strategies for the National Interpreter Certification Exam            | 1       |

Fall II
| EXCEDUC 338  | Introduction to Healthcare Interpreting                               | 3       |
| EXCEDUC 359  | Fieldwork: Interacting in the Deaf Community III                      | 3       |
| EXCEDUC 365  | Educational Interpreting II                                           | 3       |
| EXCEDUC 366  | Postsecondary Interpreting II                                         | 3       |
| EXCEDUC 367  | Video Relay Services Interpreting II                                  | 3       |

Spring II
| EXCEDUC 364  | Fieldwork: Interacting in the Deaf Community IV (In one semester or split over two semesters) | 12      |
| EXCEDUC 368  | Medical and Mental Healthcare Interpreting                            | 3       |

Total Credits  58

Education Degree, Interpreter Training Program Completion Requirements
• Completion of all admission requirements, granted admission to the ITP, and completion of ITP professional course sequence;  
• Completion of university GER requirements;  
• At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;  
• Completion of a minimum 121 degree credits; and  
• Professional coursework minimum GPA of 2.75.
Certificate of Completion Requirements

- Successful Completion of 2 (6 cr) fieldwork experiences.
- Completion of Wisconsin Department of Instruction Educational Interpreter License course requirements with a C or better: Ed Psy 330, Introduction to Learning and Development; ExcEduc 300, The Exceptional Individual; and ExcEduc 510, Classifiers or ExcEduc 520, ASL Literature
- Pass written exam for the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC)
- Pass the performance exam for Wisconsin Interpreter and Transliteration Assessment (WITA) with a 1/2 or 2/1 and higher and/or the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC) and/or the Educational Interpreter Proficiency Assessment (EIPA) with a 3.3 or higher; and/or Board for Evaluation of Interpreters (BEI)-Requires two tests-First pass the Test of English Proficiency (TEP), and then pass the BEI Basic Performance Exam

Advance to Major

Program Admission Requirements

- EXCEDUC 348, Introduction to the Profession of Interpreting, with a grade of C or better;
- EXCEDUC 352, American Deaf Culture, with a grade of C or better;
- EXCEDUC 301, EXCEDUC 302, EXCEDUC 303, EXCEDUC 304, EXCEDUC 305, and EXCEDUC 306, American Sign Language I-VI. ASL I-II with a grade of C or better; ASL III-VI with a grade of B- or better;
- EXCEDUC 320, Intro to Interpreting Skills: English to American Sign Language with a grade of B- or better;
- EXCEDUC 321, Intro to Interpreting Skills: American Sign Language to English with a grade of B- or better;
- 58 credits complete;
- Cumulative GPA of 2.5; and
- Completion of Screening Interview, which occurs after application is submitted.

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
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Final Honors

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Educational Policy and Community Studies

The Department of Educational Policy and Community Studies at UWM provides students with a deeper understanding of education and community contexts in urban areas. The department offers a Bachelor of Science in Community Engagement and Education (CEED).
Students often choose to focus their coursework in one of the following areas:

- Alternative Education/Students Placed At Risk
- Child Care (Educator or Administrator Track)
- Community Engagement and Social Change
- Policy and Leadership in Community-Based Organizations
- Urban Education
- Youth Work

Program highlights:

- Available fully online or face-to-face, or in combination
- Courses offered in the evening, daytime, weekend, and starting late in the semester
- Students can earn up to 42 lower-division credits for prior professional educational experience
- 30-credit major (120 credits in the degree)
- Accepts many courses from associate's degree that might not otherwise transfer

Students and graduates are employed by schools, community-based organizations, charities, hospitals, and local government units in metropolitan Milwaukee. The Department does not offer licensure for teaching in K-12 public schools, but many graduates either seek post-baccalaureate certification or teach in private schools.

The degree program helps those working in schools and the community better understand the social and political contexts of their jobs and provides a range of skills for better addressing challenges. Students can also select one of four optional submajors: Child Care, Community-Based Organizations Policy and Leadership, Child and Family Services, or Community Leadership. Students may seek certificates in Community Engagement Strategies, Community-Based Organizations & Leadership, Community Leadership, and Youth Work. Licensed teachers may seek an add-on state DPI certification in Alternative Education.

Students in the department come from a range of educational and community-based backgrounds. Our students and alumni include state and local elected officials; community organizers and developers; personnel in human resource institutions, including program planners, outreach workers, and administrators; teachers and directors of community day care programs; youth workers in community and group home care; teachers and directors of alternative schools; and directors of community-based organizations.

The Bachelor of Science degree in Community Engagement and Education is also available as a second degree option. Candidates for a second degree must satisfy all current requirements for an undergraduate degree for the degree program. Some of the requirements may be met by transfer credits. Students must complete at least 30 credits in residence at UWM after the date on which the first degree is awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed in residence.

The Department also offers a master's degree program in Cultural Foundations of Education with areas of concentration in educational foundations and multicultural education, focusing on sociological, historical, philosophical, and other frames of reference. Many of the same focus areas that are available in the CEED BS program can be pursued at a more advanced level in our MS program. Additional information about the master's degree program is available at https://uwm.edu/education/academics/cultural-foundations-edu/.

### Programs

- Community Engagement and Education, BS (p. 329)
- Community Engagement and Education, BS: Child and Family Services (p. 330)
- Community Engagement and Education, BS: Child Care (p. 332)
- Community Engagement and Education, BS: Community Leadership (p. 334)
- Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership (p. 336)
- Community Engagement Strategies, Undergraduate Certificate (p. 338)
- Community Engagement, Minor (p. 341)
- Community Leadership, Undergraduate Certificate (p. 341)
- Community-Based Organizations: Policy and Leadership, Undergraduate Certificate (p. 342)
- Cultural Foundations of Community Engagement and Education, MS (p. 343)
- Educational Policy, Graduate Certificate (p. 344)
- Youth Work, Undergraduate Certificate (p. 346)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Frank Besag</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Michael Bonds</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Edgar Epps</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Raquel Farmer-Hinton</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois at Urbana-Champaign</td>
<td>✔</td>
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</tr>
<tr>
<td>Walter Farrell</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Ian Harris</td>
<td>Professor</td>
<td>EdD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Florence Johnson</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<td></td>
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<tr>
<td>Julie Kailin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Ronald Podeschi</td>
<td>Professor</td>
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<td>University of Wisconsin-Madison</td>
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<tr>
<td>Kalyani Rai</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Marie Sandy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Claremont Graduate University</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>
Community Engagement and Education, BS

The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles, leadership in community-based organizations or teaching in private or alternative schools. Some students also pursue licensure for teaching in public schools after graduation.

Courses are offered during the day as well as online, in the evening and on weekends. We also give academic credit for prior professional experience. Areas of study include child care, youth work, urban education, alternative education, policy and leadership in community-based organizations, and community engagement and social action.

Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials.

Requirements

General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Advanced Expository Writing</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (OWC-B)</td>
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<tr>
<td>ENGLISH 205</td>
<td>Business Writing (OWC-B)</td>
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<td>ENGLISH 206</td>
<td>Technical Writing (OWC-B)</td>
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<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing (OWC-B)</td>
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<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (subtitle, OWC-B)</td>
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<tr>
<td>Lower Division Required Courses</td>
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<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
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<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community (GER-SS)</td>
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</tr>
<tr>
<td>or ED POL 203</td>
<td>Communities and Neighborhoods in America</td>
<td></td>
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<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
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<td>Lower Division Electives</td>
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<tr>
<td>Upper Division Required Courses</td>
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<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 506</td>
<td>Research Techniques for Community Organizers and Community Educators</td>
<td>3</td>
</tr>
</tbody>
</table>

ED POL 601 Foundations of Community-Based Organizations 3
ED POL 630 Race, Ethnicity, and Public Policy in Urban America 3

Educational Policy Foundations

Select 15 credits of ED POL level 300 or higher courses 2 15

Upper Division Electives

Select 12 credits of 300-level or higher courses from any school/college 3 12

Total Credits 54

1 Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

2 A maximum of 6 credits of fieldwork (ED POL 509, ED POL 688, or ED POL 698) may be used toward meeting this requirement; ED POL 499 cannot be used.

3 Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

Additional Requirements for Graduation

• 2.0 UWM cumulative GPA
• Satisfactory completion of a minimum of 120 credits

Opportunities

Prior Professional Education Experience (PPEE)

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

Competency Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Perspectives on Human Resource Programs 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Development 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Community Systems 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political/Economic Analysis 3</td>
<td></td>
<td></td>
</tr>
<tr>
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Honors in the School of Education
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Accelerated Program Option
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Community Engagement and Education, BS: Child and Family Services
The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles, leadership in community-based organizations or teaching in private or alternative schools. Some students also pursue licensure for teaching in public schools after graduation.

Courses are offered during the day as well as online, in the evening and on weekends. We also give academic credit for prior professional experience. Areas of study include child care, youth work, urban education, alternative education, policy and leadership in community-based organizations, and community engagement and social action.

Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials.

Requirements
General Education Requirements (GERs)
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.
Program Core

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<td></td>
<td>ENGLISH 207 Health Science Writing (OWC-B)</td>
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<td></td>
<td>ENGLISH 214 Writing in the Professions: (subtitle, OWC-B)</td>
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</tr>
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<tr>
<td></td>
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<td>3</td>
</tr>
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<td></td>
<td>ED POL 114 Community Problems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC WRK 100 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC WRK 250 Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC WRK 306 Introduction to Social Welfare Policy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Lower Division Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ED POL 375 Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 506 Research Techniques for Community Organizers and Community Educators</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL/SOC WRK 580 An Overview of Child/Youth Care</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 601 Foundations of Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 630 Race, Ethnicity, and Public Policy in Urban America</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Educational Policy Foundations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of ED POL level 300 or higher courses</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Community-Based Organization Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ED POL 602 Proposal Writing and Fundraising Skills for Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 604 Marketing for Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 605 Community-Based Organization Funding</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Children Placed at Risk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ED POL 534 Students Placed At Risk (Causes)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 535 Educating Students Placed At Risk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ED POL 581 Youth Work Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SOC WRK 310 Social Work Practice I: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC WRK 562 Child and Family Services &amp; ED POL 509 and Fieldwork/Practicum in Education and the Community</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Upper Division Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 7 credits of 300-level or higher courses from any school/college</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>63</td>
</tr>
</tbody>
</table>

1 Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

2 ED POL 499 cannot be used to satisfy this requirement.

3 Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

Additional Requirements for Graduation

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

Opportunities

Prior Professional Education Experience (PPEE)
A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

Competency Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Community Perspectives on Human Resource Programs</td>
<td>3</td>
</tr>
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<td>3</td>
</tr>
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<td>ENGLISH 214</td>
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<td>ED POL 114</td>
<td>Community Problems</td>
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**Lower-Division Electives**

**Upper Division Required Courses**

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<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
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Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

Track Requirement

Students must choose one of two tracks to follow in order to complete the program.

**Educator Track**

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<td>AD LDSP 581</td>
<td>Administration and Supervision in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 302</td>
<td>Approaches to Relationships in the Child Care Setting</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 416</td>
<td>Analysis of Child Care Environments</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 585</td>
<td>Best Practices in Early Childhood for Children and Families</td>
<td>3</td>
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**Upper Division Electives**

Select 6 credits at the 300-level or higher from any school/college or transfer credit equivalent 

<table>
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<tr>
<th>Code</th>
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Total Credits: 18

**Administrator Track**

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<tr>
<td>AD LDSP 583</td>
<td>Financial Management and Planning in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 586</td>
<td>Administrative Seminar: Leadership in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ED POL/AD LDSP 582</td>
<td>Operations Management in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 584</td>
<td>Early Childhood Programs and the External Environment</td>
<td>3</td>
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<td>Best Practices in Early Childhood for Children and Families</td>
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2. Students completing a Child Care track may be eligible for an additional Certificate and/or Credential. See Opportunities (p. 334) tab for details.

3. Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

**Additional Requirements for Graduation**

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

**Opportunities**

**Prior Professional Education Experience (PPEE)**

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

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**Additional Certificate and/or Credential**

Students completing ED POL 302, ED POL 381, ED POL 383 and ED POL 416 also earn a Certificate in Child Care Program Development from the UWM Center for Early Childhood Professional Development & Leadership (CECPDL), and are eligible to commission for the Program Development Credential from The Registry.

Students completing the 6 Administrator Track courses within 3 years receive a Certificate in Child Care Administration from the UWM CECPDL, and, upon completing the capstone project, are eligible to commission for the Wisconsin Professional Credential for Child Care Administrators from The Registry. The Registry requires that students earn a grade of at least C- in all of the Child Care Administrator courses for the Credential.

**Honors in the School of Education**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Community Engagement and Education, BS: Community Leadership**

The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles, leadership in community-based organizations or teaching in private or alternative schools. Some students also pursue licensure for teaching in public schools after graduation.

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Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials.

**Requirements**

**General Education Requirements (GERs)**

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

**Program Core**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
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<tr>
<td>----------</td>
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<td>---------</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (subtitle, OWC-B)</td>
<td></td>
</tr>
</tbody>
</table>

**Lower Division Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community (GER-SS) or ED POL 203</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Lower-Division Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 506</td>
<td>Research Techniques for Community Organizers and Community Educators</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race, Ethnicity, and Public Policy in Urban America</td>
<td>3</td>
</tr>
</tbody>
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**Upper Division Required Courses**

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</thead>
<tbody>
<tr>
<td>ED POL 603</td>
<td>Community Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 607</td>
<td>Service Learning and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 608</td>
<td>Social Media and Technology for Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 612</td>
<td>Community Participation and Power</td>
<td>3</td>
</tr>
</tbody>
</table>

**Educational Policy Foundations**

Select 3 credits of ED POL level 300 or higher courses

**Community Leadership Foundations**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 315</td>
<td>Group Process and Civic Engagement:</td>
<td>3</td>
</tr>
</tbody>
</table>

**Community Leadership Focus**

Select 9 credits from the following:

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<tr>
<td>ED POL 612</td>
<td>Community Participation and Power</td>
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</table>

**Management and Leadership**

Select one of the following:

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 507</td>
<td>Introduction to Group Leadership</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 537</td>
<td>Leadership and Management of Volunteer Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 581</td>
<td>Administration and Supervision in Early Childhood Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 617</td>
<td>Leadership in Youth-Serving Organizations</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
<td></td>
</tr>
<tr>
<td>COMMUN 310</td>
<td>Communication in Organizations</td>
<td></td>
</tr>
<tr>
<td>COMMUN 323</td>
<td>Communication in Groups and Teams</td>
<td></td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td></td>
</tr>
<tr>
<td>ED POL/AD LDSP 582</td>
<td>Operations Management in Early Childhood Programs</td>
<td></td>
</tr>
<tr>
<td>ED POL 608</td>
<td>Social Media and Technology for Community Engagement</td>
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<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ED POL 530</td>
<td>Urban Education: Foundations</td>
<td></td>
</tr>
<tr>
<td>COMMUN 472</td>
<td>Rhetoric of Radicalism in the United States</td>
<td></td>
</tr>
<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
<td></td>
</tr>
<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
<td></td>
</tr>
<tr>
<td>HIST 460</td>
<td>The History of Poverty in America</td>
<td></td>
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<tr>
<td>HIST 468</td>
<td>The American Feminist Movement</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 235</td>
<td>Social Change in the Global Economy (GER-SS)</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 304</td>
<td>Political Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 321</td>
<td>Contemporary Issues of the American Indian (GER-CD, GER-SS)</td>
<td></td>
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<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities (GER-CD, GER-SS)</td>
<td></td>
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<tr>
<td>SOCIOL 324</td>
<td>Race and Ethnicity in Global Contexts</td>
<td></td>
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<tr>
<td>SOCIOL 325</td>
<td>Social Change</td>
<td></td>
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<tr>
<td>WGS 303</td>
<td>Feminist Activism and Movements:</td>
<td></td>
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</tbody>
</table>

**Leadership Capstone/Practicum**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**

51

3 Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

4 ED POL 499 cannot be used to satisfy this requirement.

**Additional Requirements for Graduation**

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

**Opportunities**

**Prior Professional Education Experience (PPEE)**

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

**Competency Areas**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Community Perspectives on Human Resource Programs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Resource Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Local Community Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Political/Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Personal Growth Competency</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Philosophies of Change</td>
<td>3</td>
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<tr>
<td></td>
<td>Group Process Skills</td>
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</tr>
<tr>
<td></td>
<td>Group Process Skills</td>
<td>3</td>
</tr>
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</table>
Leadership Issues  3
Research Skills  3
Change Strategies  3
Educational Advocacy  3
Administrative Skills  3
Social Problem Analysis  3
Conflict Resolution  3

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, during their first or second semester of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will only apply toward a Community Engagement and Education degree and only as lower-division electives. Students who leave the CEED program will not be able to use these credits in other programs.

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- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

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General Education Requirements (GERs)

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Program Core

Code | Title | Credits
---|---|---
ENGLISH 201 | Strategies for Academic Writing (OWC-B) | 3
ENGLISH 205 | Business Writing (OWC-B) | 3
ENGLISH 206 | Technical Writing (OWC-B) | 3
ENGLISH 207 | Health Science Writing (OWC-B) | 3
ENGLISH 214 | Writing in the Professions: (subtitle, OWC-B) | 3

Lower Division Required Courses

ED POL 111 | Introduction to Community Change and Engagement | 3
ED POL 112 | Introduction to Community Education | 3
ED POL 113 | The Milwaukee Community (GER-SS) or ED POL 203 | 3
ED POL 114 | Community Problems | 3

Lower Division Electives

Upper Division Required Courses

ED POL 375 | Cultural Foundations of Education | 3
ED POL 506 | Research Techniques for Community Organizers and Community Educators | 3
ED POL 601 | Foundations of Community-Based Organizations | 3
ED POL 630 | Race, Ethnicity, and Public Policy in Urban America | 3

Educational Policy Foundations

Select 3 credits of ED POL level 300 or higher courses | 3

CBP Policy Analysis

ED POL 602 | Proposal Writing and Fundraising Skills for Community-Based Organizations | 3
ED POL 605 | Community-Based Organization Funding | 3

Select two of the following: | 6
ED POL 509 | Fieldwork/Practicum in Education and the Community | 3
ED POL 603 | Community Policy Analysis | 3
ED POL 610 | Reproduction of Minority Communities | 3
ED POL 611 | Community Policies and Urban Minority Youths | 3
ED POL 612 | Community Participation and Power | 3
ED POL 624 | Gender and Education | 3
ED POL 626 | Antiracist Education | 3
ED POL 633 | Community Development for Low-Income and Minority Communities | 3
ED POL 640 | The Rise and Fall of America’s Southern Civil Rights Movement | 3
ED POL 650 | The Civil Rights Movement in Northern Cities | 3

Management and Leadership

Select two of the following: | 6
AD LDSP 507 | Introduction to Group Leadership | 3

AD LDSP 537 | Leadership and Management of Volunteer Programs | 3
AD LDSP 581 | Administration and Supervision in Early Childhood Programs | 3
AD LDSP 617 | Leadership in Youth-Serving Organizations | 3
AD LDSP 647 | Evaluation of Adult, Continuing, and Higher Education Programs | 3
AD LDSP 667 | Program Planning in Adult Education | 3
COMMUN 310 | Communication in Organizations | 3
COMMUN 323 | Communication in Groups and Teams | 3
COMMUN 665 | Introduction to Mediation | 3
ED POL/AD LDSP 582 | Operations Management in Early Childhood Programs | 3
ED POL 604 | Marketing for Community-Based Organizations | 3
ED POL 608 | Social Media and Technology for Community Engagement | 3
ED POL 609 | Community Partnerships | 3
ED POL 625 | Race Relations in Education | 3
PUB ADM 400 | Ethics and Responsibility in Public Administration | 3

Upper Division Electives

Select 6 credits of 300-level or higher courses from any school/college | 6

Total Credits | 54

1. Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

2. ED POL 499 cannot be used to satisfy this requirement.

3. Only 3 credits of ED POL 509 can be used to fulfill this requirement.

4. Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

Additional Requirements for Graduation

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

Opportunities

Prior Professional Education Experience (PPEE)

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Competency Areas

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<tr>
<td></td>
<td>Resource Development</td>
<td>3</td>
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Philosophies of Change 3
Group Process Skills 3
Leadership Issues 3
Research Skills 3
Change Strategies 3
Educational Advocacy 3
Administrative Skills 3
Social Problem Analysis 3
Conflict Resolution 3

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Honors in the School of Education

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 40 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Community Engagement Strategies, Undergraduate Certificate

This undergraduate certificate gives students an opportunity to gain a practical, historical and theoretical understanding of strategies for promoting social change through collective action. If you’re seeking an undergraduate degree at UWM, you’ll receive the certificate upon completion of your degree. If you already have an undergraduate degree, you’ll receive the certificate once you complete the program requirements. Students without a bachelor’s degree receive a certificate from the UWM School of Continuing Education after completing the program’s required coursework.

Outcomes

- Understand power relations
- Build coalitions
- Hold government officials accountable
- Work with the media

Careers

With a focus on urban issues, this certificate is excellent preparation for students who are interested in becoming community organizers, youth...
and social workers, politicians, community researchers, and nonprofit administrators. It’s also useful for students interested in specializing in other areas, such as international, environmental or union organizing.

Requirements
The certificate program consists of 21 credits.

Foundation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
</tr>
</tbody>
</table>

External Practical Training

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 508</td>
<td>Advanced Problems in Community Change and Engagement</td>
<td>3</td>
</tr>
</tbody>
</table>

Historical Perspectives on Organizing, Inequality, and Social Change

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td></td>
</tr>
<tr>
<td>AFRIC 344</td>
<td>Global Black Social Movements</td>
<td></td>
</tr>
<tr>
<td>AFRIC 411</td>
<td>Change in African-American Communities</td>
<td></td>
</tr>
<tr>
<td>AFRIC 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td></td>
</tr>
<tr>
<td>ED POL 460</td>
<td>The Chicano Experience</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
<td></td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td></td>
</tr>
<tr>
<td>HIST 271</td>
<td>The 1960s in the United States: A Cultural History</td>
<td></td>
</tr>
<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
<td></td>
</tr>
<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
<td></td>
</tr>
<tr>
<td>HIST 460</td>
<td>The History of Poverty in America</td>
<td></td>
</tr>
<tr>
<td>HIST 468</td>
<td>The American Feminist Movement</td>
<td></td>
</tr>
<tr>
<td>HIST 473</td>
<td>History of Wisconsin Indians</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

1 A second practical training may be approved in some cases by a student’s advisor. Practical training must occur at time credits are taken and written permission must be included in student’s file prior to enrollment.

2 Enrollment in this course involves participation in a community organizing training offered by a non-UWM organization approved by the Program Committee. Contact the Department of Educational Policy & Community Studies to obtain approval before attending any program or combination of programs.

Issue Area Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 507</td>
<td>Introduction to Group Leadership</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 537</td>
<td>Leadership and Management of Volunteer Programs</td>
<td></td>
</tr>
</tbody>
</table>

Communications/Public Relations/Applied Writing Skills

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COMMUN 264</td>
<td>Persuasive Speaking</td>
<td></td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 363</td>
<td>Communication in Human Conflict</td>
<td></td>
</tr>
<tr>
<td>COMMUN 464</td>
<td>Theory and Practice of Persuasion</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
<td></td>
</tr>
<tr>
<td>JAMS 524</td>
<td>Advertising and Public Relations Campaigns</td>
<td></td>
</tr>
</tbody>
</table>

Fundraising

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 602</td>
<td>Proposal Writing and Fundraising Skills</td>
<td></td>
</tr>
</tbody>
</table>

Evaluation/Applied Research Skills/Statistical Understanding

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>or MTHSTAT 465</td>
<td>Introductory Mathematical Statistics for Social Sciences and Education</td>
<td></td>
</tr>
<tr>
<td>AFRIC 350</td>
<td>The Black Family</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
<td></td>
</tr>
<tr>
<td>ED POL 507</td>
<td>Action Research on Milwaukee Institutions</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
</tbody>
</table>

Organizational Change in Non-Profit Organizations

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 607</td>
<td>Coordination of Staff Development and Training Program</td>
<td></td>
</tr>
</tbody>
</table>

Organizing/Negotiating

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td></td>
</tr>
<tr>
<td>ED POL 411</td>
<td>Conflict and Change in Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>ED POL 611</td>
<td>Community Policies and Urban Minority Youths</td>
<td></td>
</tr>
<tr>
<td>ED POL 688</td>
<td>Fieldwork in Multicultural Education</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 655</td>
<td>Negotiation Theory and Practice for Urban Planners</td>
<td></td>
</tr>
</tbody>
</table>

Foundations Issue Area

Economics, Politics, and Urban Contexts in the United States

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 228</td>
<td>Introduction to Black Political Economy</td>
<td></td>
</tr>
<tr>
<td>AFRIC 261</td>
<td>Survey of African-American Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>AFRIC 341</td>
<td>Black Politics and City Government</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td></td>
</tr>
<tr>
<td>ECON 248</td>
<td>Economics of Discrimination</td>
<td></td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td></td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community</td>
<td></td>
</tr>
<tr>
<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
<td></td>
</tr>
<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td></td>
</tr>
<tr>
<td>POL SCI 105</td>
<td>State Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 213</td>
<td>Urban Government and Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
<td></td>
</tr>
</tbody>
</table>
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**Student-Designed Issue Area Option**

May replace up to 6 credits of either Practical or Foundations focus areas.

There are many courses at UWM not listed under the Practical and/or Foundations certificate focus areas that may be especially relevant to students with interest in a particular area of organizing. Therefore, with the written permission of the Program Coordinator, students with special interests may develop an issue area that may take the place of up to 6 credits of the Practical or Foundations areas.

Examples of possible student-designed issue areas might include:

- International Contexts and Organizing
- Organizing in Rural Settings
- Health Care Organizing
- Organizing around Issues of Sexuality and/or Sexual Orientation
- Contesting the Criminal Justice System
- Organizing around Disability Issues
- Pollution and Inequality

Courses for a student-designed focus area will only count towards the Community Engagement certificate if they are taken after a student is officially admitted to the program, and must be officially approved prior to enrollment. Students must show evidence that they cannot pursue their interest under the current constraints of the Practical and Foundations focus areas. A maximum of three credits of independent
reading may be included in this student-designed focus if a relevant course or topic is not available at the University.

**Community Engagement, Minor**

With this minor, students can learn about local urban communities and how to improve them. This practical knowledge can provide a foundation for building a career in a variety of human services and community-based careers. The Community Engagement and Education minor is open to all undergraduate students, but should be of particular interest to majors in:

- Africology
- Anthropology
- Business
- Communication
- Education
- Philosophy
- Political Science
- Psychology,
- Social Welfare
- Sociology

**Requirements**

Students may declare the minor after completing at least 45 credits, but prior to completing 75 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lower Division Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Upper Division Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 12 credits of 300-level or higher ED POL courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

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**Community Leadership, Undergraduate Certificate**

The Community Leadership Certificate provides students from any major with a way to explore leadership theory and identity in the community (including the campus community) and community-based institutions. The program will be based on a social justice model of leadership development, but will expose students to additional philosophies such as servant leadership and authentic leadership. Students will also gain practical experience by attending teambuilding activities such as ROPES courses, participating in community service, and doing a practicum in a leadership position, among other experiential learning activities.

**Requirements**

The certificate program consists of 16 credits, three of which will come from an experiential learning course, with activities specific to the student’s major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 315</td>
<td>Group Process and Civic Engagement:</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 691</td>
<td>Leadership Ethics in Multicultural</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Organizations</td>
<td></td>
</tr>
<tr>
<td><strong>Leadership Practice</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Engagement</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 507</td>
<td>Introduction to Group Leadership</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 537</td>
<td>Leadership and Management of Volunteer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Programs</td>
<td></td>
</tr>
<tr>
<td><strong>Social/Historical Foundations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits from list of selected courses (see advisor or</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>program sheet)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Practical Elective
Select 3 credits from list of selected courses (see advisor or program sheet) 3
Leadership Capstone/Practicum
Select one of the following: 3
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
</tr>
<tr>
<td>AD LDSP 630</td>
<td>Field Work in Schools, Agencies and Institutions</td>
</tr>
<tr>
<td>COMMUN 698</td>
<td>Internship in Communication</td>
</tr>
<tr>
<td>NURS 403</td>
<td>Practice, Research and Leadership Role Development</td>
</tr>
<tr>
<td>WGS 489</td>
<td>Internship in Women’s and Gender Studies</td>
</tr>
</tbody>
</table>
Total Credits 16

1 Sites could include community health clinics (group facilitation or advocacy roles), campus organizations (campus ambassadors, peer health advocates, etc.), local non-profits (board positions), and others.

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Living Learning Communities (LLC)
Living Learning Communities are for those interested in being part of a “community within a community” by living in residence halls among students with similar interests. Members of Living Learning Communities (http://uwm.edu/housing/community/living-learning-communities/) have access to special resources, programs and activities that will connect them with other students, instructors and life at the university. Among the many options is a Community Leadership LLC, which focuses on giving students the skills to succeed as active citizens and leaders in the community.

The Community Leadership option is open to freshmen and sophomores and requires enrollment in certain courses. Students who live in this LLC will only be 9 credits shy of completing the Community Leadership Certificate Program, making it a great add-on to one’s major or minor. Certificate completion is noted on University transcripts.

Community-Based Organizations: Policy and Leadership, Undergraduate Certificate
This certificate program prepares students for mid-level positions in community-based organizations and provides a base for graduate work in non-profit management and other related areas. Students take coursework in foundations and policy, which provides an overview of the workings and role of CBOs, fundraising and marketing, and in leadership to provide knowledge in preparation for supervisory and management roles.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 603</td>
<td>Community Policy Analysis</td>
</tr>
<tr>
<td>ED POL 605</td>
<td>Community-Based Organization Funding</td>
</tr>
<tr>
<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race, Ethnicity, and Public Policy in Urban America</td>
</tr>
</tbody>
</table>

Fundraising and Marketing
Undergraduate Advising

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How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Leadership

Choose one:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 582</td>
<td>Operations Management in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 606</td>
<td>Quality Controls and Accountability for Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>ED POL 608</td>
<td>Social Media and Technology for Community Engagement</td>
<td></td>
</tr>
<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 537</td>
<td>Leadership and Management of Volunteer Programs</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 581</td>
<td>Administration and Supervision in Early Childhood Programs</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 15

Cultural Foundations of Community Engagement and Education, MS

The Department of Educational Policy and Community Studies offers a master’s program for educators, community leaders, and those working in community-based organizations. Students deepen their knowledge base around issues relating to urban education and the contexts of urban communities. The program of study enhances participants’ ability to critically analyze education and processes of community change.

Our courses are offered in the evenings, online, and on weekends to serve working students. All in-department courses required for the degree are offered online, and students are able to complete all of their departmental courses online over a two year cycle as space permits.

A core of four courses provides a foundation in sociology, history, philosophy and research.

Students are encouraged to develop and understand their own frameworks of values and theoretical perspectives as applied to the realities of urban education and urban communities. A faculty advisor will assist the student through the program, balancing flexibility and structure according to professional needs. Common focus areas include the following:

- Alternative Education/At-Risk Students
- Child Care
- Community Organizing for Social Change
- Community Engagement and Partnerships
- Educational Policy
- Race Relations
- Urban Education
- Youth Work

Because our program is very flexible, allowing 6 credits of electives within the department as well as 9 credits that can be chosen from across the university, students often create their own unique informal focus areas, which have included: Latino Studies, Working-Class Studies, Educating Hmong Students, Global Education, Comparative Education, Race and the Police, Education and the Homeless, and more.

Students are encouraged to develop and understand their own values and theoretical perspectives as applied to the realities of urban education and community change. A faculty advisor will assist the student through...
the program, balancing flexibility and structure according to professional needs.

A wide variety of professionals seeking to understand the urban context of education and community change have found this program useful. Graduates work in a range of fields: directors of non-profit and community-based agencies; teachers and principals in public, private, and alternative schools; administrators of child care centers; directors of social action organizations; managers of programs serving youth; administrators in health service facilities; community organizers; elected government officials; police officers; administrators of group homes; doctoral students; professors; and more.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus, submit a written statement of educational and professional goals with desired area of concentration to be considered for admission to the program.

Credits and Courses

The program in Cultural Foundations of Community Engagement and Education requires a minimum of 30 graduate credits, divided among the following: required core courses (15); focus work (minimum 9 graduate credits), electives (minimum 6 graduate credits).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 702</td>
<td>Cultural Foundations of Education Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 705</td>
<td>Sociology of Education and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 710</td>
<td>Research Methods for Education and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 740</td>
<td>Modern Philosophies of Education and Community</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 750</td>
<td>History of Education in American Communities</td>
<td>3</td>
</tr>
</tbody>
</table>

Focus Work in Cultural Foundations
Select 9 credits in the Department of Educational Policy and Community Studies 3 credits

Electives
Select a maximum of 6 graduate credits of electives 4 credits

Total Credits 30

Capstone Practicum Option
For the Capstone Practicum option, students take three credits of ED POL 791. Working with the instructor of this course, students conduct a project that relates to their core interests in the program and write a final paper related to their capstone project. More details are given in the syllabus for the ED POL 791 course. This course is generally taken in the last or close to last semester of a student's program.

1 Each of these required courses has a set of major questions that guide the instructor and the students.
2 ED POL 702 must be taken in the first two semesters after a student enrolls in the program.
3 May be focused in the following areas:
   • alternative education
   • multicultural education
   • peace education
   • urban education
   • educational policy

They will select this focus with the help of an advisor.

4 In order to individualize the program, a maximum of 6 graduate credits of electives is selected in consultation with the advisor to enhance the specific professional goals of the student. These credits may be selected from courses within the Department, courses in other departments in the School of Education, or courses outside of the School of Education. A maximum of 3 credits of Independent Reading and 3 credits of fieldwork may be included in the program.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Capstone Paper/Project or Thesis
All students in the Cultural Foundations of Community Engagement and Education program must complete either a capstone practicum, final paper, or thesis as part of their degree requirements. This choice should be made by the student in consultation with his/her advisor. Each option is completed under the direction of a faculty member.

Final Paper Option
The final paper option generally begins with a research paper written in one of the student's classes, and then this paper is brought to a more complete form with the support of a faculty advisor. This option is designed for students who are planning to go on to further graduate study, and provides an opportunity to generate a writing sample for applications as well as to hone one's research abilities. Students do not generally take extra credits to complete this option. Note that this is NOT a thesis, which is a much more intensive and formalized research effort.

Thesis Option
A thesis represents a much more substantial research project that is submitted formally to the Graduate School. Students pursuing the thesis option may take up to 6 credits of Ed Pol 990 Research or Thesis.

Exit Interview
Students completing any of the above options will also end with a final exit interview with two faculty members from the program.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Educational Policy, Graduate Certificate

The Graduate Certificate in Educational Policy prepares professionals to work in policy analysis as analysts, educational researchers, and
program coordinator. 

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants must have completed a bachelor’s degree prior to admission, must have a minimum 2.75 cumulative undergraduate grade point average, and must declare their intent to pursue the certificate before completion of six credits in the certificate sequence. Applicants with a graduate degree must have a minimum 3.00 graduate grade point average.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
The Graduate Certificate in Educational Policy requires the completion of 15 credits of graduate work: 6 core credits, 3 credits of quantitative methods, and 6 credits of electives, chosen in collaboration with the program coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 615</td>
<td>Service Delivery Policies &amp; Systems for Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 832</td>
<td>Educational Politics and Policymaking</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Methods 1</td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 979</td>
<td>Qualitative Research Methods</td>
<td></td>
</tr>
<tr>
<td>Other equivalent courses can also fulfill this requirement, as determined by department</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Focus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 710</td>
<td>Organizational Change and Team Leadership</td>
<td>3</td>
</tr>
<tr>
<td>or AD LDSP 862</td>
<td>School Finance</td>
<td></td>
</tr>
</tbody>
</table>

Advanced Statistical Methods
Select two of the following in collaboration with advisor: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 862</td>
<td>Public Deliberation</td>
</tr>
<tr>
<td>ED POL 561</td>
<td>Education Issues in American Indian Communities</td>
</tr>
<tr>
<td>ED POL 602</td>
<td>Proposal Writing and Fundraising Skills for Community-Based Organizations</td>
</tr>
<tr>
<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
</tr>
<tr>
<td>ED POL 612</td>
<td>Community Participation and Power</td>
</tr>
<tr>
<td>ED POL 621</td>
<td>History of Minority Education and Policy Development</td>
</tr>
<tr>
<td>ED POL 625</td>
<td>Race Relations in Education</td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race, Ethnicity, and Public Policy in Urban America</td>
</tr>
<tr>
<td>ED POL 770</td>
<td>History of Urban Education Reform Policies</td>
</tr>
<tr>
<td>ED POL 780</td>
<td>Urban Education Policies and Community: Problems and Opportunities</td>
</tr>
<tr>
<td>ED POL 822</td>
<td>Global Educational Studies</td>
</tr>
<tr>
<td>POL SCI 749</td>
<td>Seminar in American Political Institutions</td>
</tr>
</tbody>
</table>

Other courses may be chosen in conjunction with advisor

Total Credits 18

1 Qualifying courses must include multiple linear regression.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last two years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Youth Work, Undergraduate Certificate**

The Youth Work Certificate is available to students in Social Work, Community Education and Engagement, Exceptional Education, and Educational Studies. It is ideal for students who want to learn more about adolescence and working with youth in a variety of settings, including large and small community based programs, group homes, foster care, and residential treatment centers. The focus is on youth who are troubled or at high risk, but much of the learning applies to youth in general and younger children as well.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL/SOC WRK 580</td>
<td>An Overview of Child/Youth Care</td>
<td>3</td>
</tr>
<tr>
<td>ED POL/SOC WRK 581</td>
<td>Youth Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
<td>2-3</td>
</tr>
<tr>
<td>Select 6 credits of courses focused on Human Development or Family Work in consultation with advisor</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>14-15</td>
</tr>
</tbody>
</table>

1  Fieldwork must relate to child and/or youth care.

**Undergraduate Advising**

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soeinfo@uwm.edu

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**Transfer Student Not Yet Enrolled at UWM?**
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

**Graduate Advising**
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

**Educational Psychology**

The Department of Educational Psychology offers undergraduate courses in cognitive and developmental sciences, measurement, research, evaluation and statistics, school psychology, school counseling, and community counseling. These courses are for students enrolled in teacher preparation programs in the School of Education and for interested students in other schools and colleges. Undergraduates may not major or minor in educational psychology.

Educational Psychology also offers a minor in Counseling to undergraduates from other majors, such as Psychology, Nursing, Criminal Justice, Communication, and other areas in which students are interested in developing counseling skills.

The Department of Educational Psychology prepares graduate students for a variety of clinical, research, and teaching professions at the master’s or doctoral level.

The Master of Science in Educational Psychology is designed to serve those who want to increase their understanding of human behavior from conception through adulthood, research and evaluation of learning, and development in informal and formal educational settings. The program permits concentrations in School Counseling, Community Counseling, School Psychology, Cognitive and Developmental Sciences, and Educational Statistics and Measurement. The Department also offers certification sequences to qualify students as school psychologists and school counselors.

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education,
learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, and School Psychology.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

**Programs**

- Children's Mental Health for School Professionals, Graduate Certificate (p. 347)
- Counseling, Minor (p. 348)
- Educational Psychology, MS: Clinical Mental Health Counseling (p. 349)
- Educational Psychology, MS: Cognitive and Developmental Sciences (p. 350)
- Educational Psychology, MS: Educational Statistics and Measurement (p. 351)
- Educational Psychology, MS: School Counseling (p. 352)
- Educational Psychology, MS: School Psychology (p. 354)
- Educational Psychology, PhD: School Psychology (p. 355)
- Educational Psychology, PhD: Cognitive and Developmental Sciences (p. 358)
- Educational Psychology, PhD: Counseling Psychology (p. 360)
- Educational Psychology, PhD: Educational Statistics and Measurement (p. 363)
- Multicultural Knowledge of Mental Health Practices, Graduate Certificate (p. 365)
- School Counseling, Graduate Certificate (p. 366)
- School Psychology, EdS (p. 367)
- Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology) (p. 368)

**Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelsey Autin</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Florida</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Razia Azen</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Toronto</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Thomas Baskin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adrian Chan</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Roberta Corrigan</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Jerry Davis</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Anne Ellison</td>
<td>Professor</td>
<td>EdD</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Nadya Fouad</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Gerald Gleason</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Anthony Hains</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Kyongboon Kwon</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Georgia</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Susie Lamborn</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Denver</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Christopher Lawson</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Ronald H. Lingren</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Ann Meyer</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doug Mickelson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Jacqueline Nguyen</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Martin Sapp</td>
<td>Professor</td>
<td>EdD</td>
<td>University of Cincinnati</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philip Smith</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Karen Stoiber</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>John Surber</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mary Walz-Chojnacki</td>
<td>Senior Lecturer</td>
<td>MS</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stephen Wester</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Florida</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Kenneth Wodtke</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bo Zhang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
• Post baccalaureate: Minimum 2.75 undergraduate GPA, submit undergraduate transcripts and letter of intent.
• Current graduate students: minimum 3.0 cumulative GPA; submit current transcript and letter of intent.
• Post graduate: submit graduate transcript and letter of intent.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
15 graduate credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 710</td>
<td>Child and Adolescent Mental Health Issues in Schools</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 711</td>
<td>Cultural Context of Children's Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 712</td>
<td>Mentally Healthy Classroom and School Environments</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 713</td>
<td>Mental Health Needs in Urban Environments</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists (or approved alternative)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

The certificate is conferred on completion of all courses with a grade of B or better.

Additional Requirements

Transfer Credit
No credits may be taken at an institution other than UWM.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Counseling, Minor

Counseling is an essential component across disciplines in psychology, education, social work, and related health professions. The foundational body of knowledge and development of introductory skills in the field of counseling are applicable to students pursuing these professions. A counseling minor would enable individuals to empower diverse individuals, families, and groups to accomplish mental health, wellness, education, and career goals and overcome personal challenges and obstacles in a variety of settings.

Requirements

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 212</td>
<td>Career Planning and Development for the Multicultural Workplace</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 220</td>
<td>Positive Psychology Applied to Culture, Learning, &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350 or COMMUN 402</td>
<td>Intercultural Communication or Gender and Communication</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>or ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 403</td>
<td>Overview of Counseling Skills</td>
<td>3</td>
</tr>
</tbody>
</table>
### Educational Psychology, MS: Clinical Mental Health Counseling

The counseling program in the Department of Educational Psychology offers two distinct concentration areas:

- Clinical Mental Health Counseling
- School Counseling

Given UWM’s location in the largest urban area in Wisconsin, the counseling faculty is committed to training multiculturally competent community counselors and school counselors to serve clients in urban environments. Both concentrations share a core preparation in the areas of counseling and educational psychology. As students make progress in their program of studies, their focus will take on a more specialized training with content specific courses and field placements where they will refine their counseling skills in practical settings.

The concentrations train counselors to work with a diverse group of clients in urban settings and to deliver services in an ethical manner, as outlined by professional codes of conduct. They share in common courses comprising an Educational Psychology core of studies, a general Counseling core of studies, and a Concentration core. The Educational Psychology core provides knowledge for understanding research and professional scholarship, techniques of educational and psychological measurement, and typical human growth and development across the life-span. The Counseling core courses provide training in basic helping processes and relationships, career development, social and diversity issues in counseling, group work, appraisal of client issues, counseling theory, and the role of family systems. The Concentration core provides training in advanced strategies for helping clients change, and opportunities for increasing competency with specific populations through field placement. Pre-Practicum, Practicum I and Practicum II provide 700 hours of supervised clinical training which involves the refinement of more advanced and sophisticated counseling skills in placements in actual counseling settings.

Students are required to spend 20 hours each week during the semester at their placement site (an exception to this hour requirement is described below for students interested in seeking experience in dual concentrations).

The Clinical Mental Health Counseling concentration prepares students for work in a variety of community settings such as mental health clinics, community agencies, counseling centers, colleges and universities, and business and industry. Students arrange their program of studies in consultation with their advisors so that the 60 credits earned toward a master’s degree will meet selected state certification requirements.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Application

Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for department-specific application requirements.

---

**COUNS 600**  
Introduction to Clinical Mental Health Counseling  
3

| Total Credits | 18 |

**Completion**

- 18 credits, at least 9 at the 300 level and above;
- Minimum GPA of 2.5 on all credits in the minor, including UWM and transfer credits.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
soeinfo@uwm.edu

**Walk-In Hours**

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

**Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).
Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Admission - Clinical Mental Health Counseling Concentration
Admission to the master’s concentrations in counseling takes place in the fall. The Department of Educational Psychology deadline for receipt of completed applications is February 15.

If you are interested in applying to one of the master’s concentrations in counseling, please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for more information. A student handbook containing detailed information on each program is available online; it can be accessed by clicking on the specific program of interest in the left-hand navigation bar. For further questions not addressed on the website, contact the Department of Educational Psychology at edpsydept@uwm.edu.

Students who seek admission to the Clinical Mental Health or School Counseling concentrations within the counseling area must apply through the Graduate School (https://graduateschool-apply.uwm.edu/) for admission to the Department of Educational Psychology. Please note that Graduate School deadlines are earlier than those at the Department of Educational Psychology, and complete applications are due by February 15.

The Counseling Area follows the admissions requirements of the Graduate School and the Department of Educational Psychology.

• 48 credits are required for the School Counseling concentration.
• 60 credits are required for the Clinical Mental Health Counseling concentration.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Educational Psychology Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
</tr>
<tr>
<td><strong>Counseling Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 800</td>
<td>Group Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
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</table>

**Clinical Mental Health Counseling**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 600</td>
<td>Introduction to Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 702</td>
<td>Neuroscience and Medical Aspects of Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 755</td>
<td>Counseling Pre-Practicum</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 751</td>
<td>Multicultural Considerations in Lifespan Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 812</td>
<td>Clinical Studies in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 970</td>
<td>Supervised Practicum 2 in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 791</td>
<td>Current Topics in Social Work:</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3 elective credits</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 60

In addition to the courses listed above, students must complete a comprehensive examination, a master’s paper, or a thesis (no more than three thesis credits to apply towards the degree).

Additional Requirements

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

**Thesis**
Optional. Up to 6 degree credits may be awarded for thesis research.

**Comprehensive Examination**
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Educational Psychology, MS: Cognitive and Developmental Sciences**

The Cognitive and Developmental Sciences concentration provides students with the psychological foundations of education. The program emphasizes the perspective of the learner and concentrates on the following content areas: cognition, development, and social. The program
focuses on research skills as they apply to education and training, throughout the lifespan, in a broad range of settings.

Graduates of the MS program go on to pursue a PhD (often in Educational Psychology or a related field) or find jobs in education and/or research settings in the private or public sectors. Many graduates of our PhD program pursue careers at research institutes and universities.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for department-specific application requirements.

Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Credits and Courses

Students are required to complete 30 credits for the master's degree. Students complete 9 credits of core courses, 15 credits of a concentration, and 6 elective credits. Students’ programs of studies are developed in consultation with their assigned advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>9</td>
</tr>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td></td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>Required Courses (15 graduate credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
<td></td>
</tr>
<tr>
<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
<td></td>
</tr>
<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
<td></td>
</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
<td></td>
</tr>
</tbody>
</table>

ED PSY 747 Human Development: Study of the Adult
ED PSY 831 Cognition: Theory and Research
ED PSY 833 Social Psychology of Group Differences: Race and Ethnicity
ED PSY 834 The Psychology of Achievement Motivation
ED PSY 844 The Multicultural Family
ED PSY 845 Immigrant Child in Developmental Perspective

Elective credits 6
Total Credits 30

Additional Requirements

Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Thesis

Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Accelerated Program Option

This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Educational Psychology, MS: Educational Statistics and Measurement

Student learning is measured more than ever before, and that means that the education field needs professionals who have expertise in educational statistics and measurement.

You’ll find our graduates working in universities, state and federal agencies, test publishing organizations, school systems, state departments of education, marketing research companies and research centers, among other settings.

The Educational Statistics and Measurement concentration is designed to provide students with the knowledge necessary to execute research and evaluate and critique existing research. Course work exposes students to the general principles of inferential statistics, research methodology and experimental design, psychometrics, and categorical and qualitative research methods.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Credits and Courses
Students are required to complete 30 credits for the master's degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td>4</td>
</tr>
<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>Learning and Development</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 735</td>
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<td>ED PSY 747</td>
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<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
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<tr>
<td>ED PSY 833</td>
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<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
<td></td>
</tr>
</tbody>
</table>

ED PSY 845 Immigrant Child in Developmental Perspective

Electives (11 credits)
6 credits must be from the following Educational Statistics and Measurement courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 825</td>
<td>Multivariate Methods</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 828</td>
<td>Program Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 829</td>
<td>Instrument Development</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Students’ programs of study are developed in consultation with their assigned advisor.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Thesis
Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Educational Psychology, MS: School Counseling

The counseling program in the Department of Educational Psychology offers two distinct concentration areas:

- Clinical Mental Health Counseling
- School Counseling

Given UWM’s location in the largest urban area in Wisconsin, the counseling faculty is committed to training multiculturally competent community counselors and school counselors to serve clients in urban environments. Both concentrations share a core preparation in the areas of counseling and educational psychology. As students make progress in their program of studies, their focus will take on a more specialized training with content specific courses and field placements where they will refine their counseling skills in practical settings.

The concentrations train counselors to work with a diverse group of clients in urban settings and to deliver services in an ethical manner, as outlined by professional codes of conduct. They share in common
courses comprising an Educational Psychology core of studies, a general Counseling core of studies, and a Concentration core. The Educational Psychology core provides knowledge for understanding research and professional scholarship, techniques of educational and psychological measurement, and typical human growth and development across the life-span. The Counseling core provides training in basic helping processes and relationships, career development, social and diversity issues in counseling, group work, appraisal of client issues, counseling theory, and the role of family systems. The Concentration core provides training in advanced strategies for helping clients change, and opportunities for increasing competency with specific populations through field placement. Supervised Practicum I and II in Counseling involve the refinement of more advanced and sophisticated counseling skills in placements in actual counseling settings. Students are required to spend 20 hours each week during the semester at their placement site (an exception to this hour requirement is described below for students interested in seeking experience in dual concentrations). This concentration requires 48 credits.

The School Counseling concentration prepares students to work as school counselors. The program is approved by the Wisconsin Department of Public Instruction. Students are trained to apply the principles of learning, human development, counseling, and research and measurement within the schools. Preparation is designed to enable students to deliver school counseling programs and services to schools and the community. Students arrange their program of studies in consultation with their advisors so that the 48 credits earned toward a master’s degree also will satisfy Wisconsin State Certification requirements. Certification is available as a K-12 School Counselor and as a Bilingual Counselor.

The School Counseling Certification program is for students who already possess a master’s degree. Certification students are admitted to the school counseling certification and enroll as non-degree candidates. They need to meet the requirements for school counselor certification, which are generally fewer than the credits required for the MS. Final selection of courses is determined by consultation with an advisor. Certification is available as a K-12 School Counselor and as a Bilingual Counselor. The requirements for this certification program meet the certification standards of the Wisconsin Department of Public Instruction.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines)/.

**Application**

Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for department-specific application requirements.

**Admission**

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

**Admission - School Counseling Concentration**

Admission to the master's concentrations in counseling takes place in the fall. The Department of Educational Psychology deadline for receipt of completed applications is February 15.

If you are interested in applying to one of the master's concentrations in counseling, please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for more information. A student handbook containing detailed information on each program is available online; it can be accessed by clicking on the specific program of interest in the left-hand navigation bar. For further questions not addressed on the website, contact the Department of Educational Psychology at edpsydpt@uwm.edu.

Students who seek admission to the Clinical Mental Health or School Counseling concentrations within the counseling area must apply through the Graduate School (https://graduateschool-apply.uwm.edu/) for admission to the Department of Educational Psychology. Please note that Graduate School deadlines are earlier because they receive, evaluate, and send completed graduate school applications to the Department. Upon admission, the student is assigned to a faculty member of the Department of Educational Psychology-Counseling Area who shall serve as the student’s advisor.

The Counseling Area follows the admissions requirements of the Graduate School and the Department of Educational Psychology.

- 48 credits are required for the School Counseling concentration.
- 60 credits are required for the Clinical Mental Health Counseling concentration.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
</tr>
</tbody>
</table>

**Counseling Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 800</td>
<td>Group Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**School Counseling**
Educational Psychology: Specialization in School Psychology. The PhD in Educational Psychology with a concentration in School Psychology; the following degree options are available: Master of Science Degree psychoeducational interventions and assessment procedures.

Students are prepared to provide and practice. The program prepares students for employment in practitioner model and provides a concrete link between theory, research, and to empirically evaluate the efficacy of their psychological services to children, adolescents, and families; to school and mental health settings. Students are prepared to provide and practice. The program prepares students for employment in practitioner model and provides a concrete link between theory, research, and to empirically evaluate the efficacy of their psychological services to children, adolescents, and families; to school and mental health settings.

The program is accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP).

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Credits and Courses

The following degree options are available: Master of Science Degree in Educational Psychology with a concentration in School Psychology; Education Specialist Degree in School Psychology; and, a PhD in Educational Psychology: Specialization in School Psychology. The PhD

In addition to the courses listed above, students must complete a comprehensive examination, a master’s paper, or a thesis (no more than three thesis credits to apply towards the degree).

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

Thesis
Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Educational Psychology, MS: School Psychology

The master's degree in Educational Psychology (School Psychology concentration) is designed as part of the Educational Specialist or Doctoral degree. Students in the EdS or PhD track earn a master's degree along the way to their final degree upon completion of the master's degree requirements. As such, the master's degree is not a terminal degree. Students must complete 30 graduate credits. Further, students in the EdS track must pass the master's exam, and students in the PhD track must complete a master's paper or thesis.

The School Psychology concentration incorporates the scientist-practitioner model and provides a concrete link between theory, research, and practice. The program prepares students for employment in school and mental health settings. Students are prepared to provide psychological services to children, adolescents, and families; to conduct research; and to empirically evaluate the efficacy of their psychoeducational interventions and assessment procedures.

The following degree options are available: Master of Science Degree in Educational Psychology with a concentration in School Psychology; Education Specialist Degree in School Psychology; and, a PhD in Educational Psychology: Specialization in School Psychology. The PhD

Program is accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP).

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

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Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
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3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Credits and Courses

The following degree options are available: Master of Science Degree in Educational Psychology with a concentration in School Psychology; Education Specialist Degree in School Psychology; and, a PhD in Educational Psychology: Specialization in School Psychology. The PhD

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Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Credits and Courses

Students in the Educational Psychology MS - School Psychology concentration pursue either the Education Specialist (EdS) degree or the PhD degree. In order to better prepare students for their subsequent degree, there are two curriculum tracks to choose from.

Master's Degree Requirements - EdS track (30 credits minimum)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 751</td>
<td>Professional and Historical Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 752</td>
<td>Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists</td>
<td>3</td>
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</table>

Educational Methods and Intervention Strategies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 852</td>
<td>Social, Psychological, and Biological Basis of Learning Disorders</td>
<td>3</td>
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</table>

Educational Statistics and Measurement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>3-4</td>
</tr>
<tr>
<td>or ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td></td>
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</table>

1. EXCEDUC 600, is required for non-teachers in place of the elective.
ED PSY 720  Techniques of Educational and Psychological Measurement  3

**Human Development & Learning**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**  66-67

**Master’s Examination**

Upon successful completion of 30 graduate credits, the student is eligible to become a candidate for the Master of Science in Educational Psychology. The master’s degree is awarded pending successful completion of a master’s comprehensive examination.

**Master’s Degree Requirements - PhD Track (30 credits minimum)**

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
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<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
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</tr>
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<tr>
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**Educational Methods and Intervention Strategies**

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<tbody>
<tr>
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<td>Academic Intervention and Alternative Assessment</td>
<td>3</td>
</tr>
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</table>

**Educational Statistics and Measurement**

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<th>Title</th>
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</thead>
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</tr>
<tr>
<td>or ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td></td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
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<td>or ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research**

<table>
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<tbody>
<tr>
<td>ED PSY 790</td>
<td>Research or Thesis</td>
<td>1-3</td>
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</tbody>
</table>

**Master’s Thesis/Paper**

Upon successful completion of 30 graduate credits, the student is eligible to become a candidate for the Master of Science in Educational Psychology. The master’s degree is awarded pending successful completion of a master’s thesis or paper.

**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

**Thesis**

Optional. Up to 6 degree credits may be awarded for thesis research.

**Comprehensive Examination**

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Educational Psychology, PhD: School Psychology**

The doctoral specialization in School Psychology adheres to a scientist-practitioner model of training and is designed to fully integrate psychological theory with rigorous research and professional practice skills. The program is committed to training multi-culturally competent school psychologists. The PhD program is accredited by the American Psychological Association and approved by the National Association of School Psychologists.

The School Psychology program has five major goals. It aims to prepare school psychologists to:

- Design and implement evidence-based therapeutic interventions that meet the mental health and educational needs of children, adolescents and families
- Engage in problem-solving consultation within and across schools and community settings with families and professionals to enhance the competencies and resilience of youth and to promote healthy home, school and community environments
- Conduct comprehensive assessments that are directly linked to interventions aimed at improving understanding and outcomes of youth, families and schools
- Provide service delivery and to conduct research that reflects APA and NASP ethical and professional standards
- Conduct, interpret, critique and disseminate high quality scientist-practitioner research that advances the field of school psychology

**Educational Psychology PhD**

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

Office of Program Consultation and Accreditation
American Psychological Association  
750 1st Street, NE, Washington, DC 20002  
Phone: (202) 336-5979  
E-mail: apaaccred@apa.org  
Website: American Psychological Association Website (https://www.apa.org/ed/accreditation/)

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years. (Not required for the Cognitive and Developmental Sciences area of concentration.)
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences concentration must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.

**Credits and Courses**

**Core Educational Psychology Requirements**

All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

**Psychological Foundations Core:** Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without ED PSY 631 and ED PSY 640 must take these courses as part of their 12-credit minimum.

**Urban Foundations:** 3 credits minimum.

**Research Methods Core:** 15 credits

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Psychological Foundations Core</strong></td>
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<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
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<tr>
<td>Select two of the following:</td>
<td></td>
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<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
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<tr>
<td>ED PSY 741</td>
<td>Cognitive Development</td>
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</tr>
<tr>
<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
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<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
<td></td>
</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
<td></td>
</tr>
<tr>
<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
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</tr>
<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
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</tr>
<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
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<tr>
<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
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<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
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<td>ED PSY 844</td>
<td>The Multicultural Family</td>
<td></td>
</tr>
<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
<td></td>
</tr>
</tbody>
</table>

**Urban Foundations**

EDUC 701 Urban Educational Issues 3

**Research Core**

ED PSY 624 Educational Statistical Methods I 3

ED PSY 724 Educational Statistical Methods II 4

Select 7 credits from the following: 7

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
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</tr>
<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
<td></td>
</tr>
<tr>
<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>ED PSY 822</td>
<td>Item Response Theory</td>
<td></td>
</tr>
<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
<td></td>
</tr>
<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
<td></td>
</tr>
<tr>
<td>ED PSY 825</td>
<td>Multivariate Methods</td>
<td></td>
</tr>
<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
<td></td>
</tr>
<tr>
<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
<td></td>
</tr>
<tr>
<td>ED PSY 829</td>
<td>Instrument Development</td>
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</tr>
<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation</td>
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</tbody>
</table>
Students Entering Without a Master’s

In the School Psychology concentration, students entering without a master’s degree in School Psychology must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 732</td>
<td>Cognitive Behavioral Intervention Strategies in Education</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 952</td>
<td>Pediatric Psychology in Urban Settings</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 955</td>
<td>Advanced Therapeutic Interventions</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 960</td>
<td>Evidence-Based Practices in School Psychology: Prevention &amp; Intervention</td>
<td>3</td>
</tr>
<tr>
<td>Educational Interventions</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 29

Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

Students Entering Without a Master’s

In the School Psychology concentration, students entering without a master’s degree in School Psychology must complete the following:

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</tr>
<tr>
<td>Educational Interventions</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 24

Additional Requirements

Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence

The student must meet minimum Graduate School residence requirements of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

Practicum

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

Internship

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

Publishable Paper

Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

Minor

Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Cognitive and Developmental Sciences and Educational Statistics and Measurement, based on consultation with an advisor.

Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

Proposal Hearing

A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation
Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

Exit Requirements
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

Time Limit
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

Educational Psychology, PhD: Cognitive and Developmental Sciences

This graduate-level program emphasizes the perspective of the learner and trains students to conduct cutting-edge research applied to a broad range of learning contexts — from schools to museums to home — throughout the human lifespan. Students in the CDS program can pursue a master’s or doctoral degree in Educational Psychology while working closely with one of our faculty members (https://catalog.uwm.edu/education/educational-psychology/#facultytext).

Graduates of the MS program go on to pursue a PhD (often in Educational Psychology or a related field) or find jobs in education and/or research settings in the private or public sectors. Many graduates of our PhD program pursue careers at research institutes and universities.

Educational Psychology PhD
The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/education-psychology-department/) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

Office of Program Consultation and Accreditation
American Psychological Association
750 1st Street, NE, Washington, DC 20002
Phone: (202) 336-5979

E-mail: apaaccred@apa.org
Website: American Psychological Association Website (https://www.apa.org/ed/accreditation/)

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years. (Not required for the Cognitive and Developmental Sciences area of concentration.)
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant’s academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant’s intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences concentration must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.

Credits and Courses

Core Educational Psychology Requirements
All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master’s degree will have completed some of these courses. Courses taken during Master’s preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Psychological Foundations Core: Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without ED PSY 631 and ED PSY 640 must take these courses as part of their 12-credit minimum.

Urban Foundations: 3 credits minimum.

Research Methods Core: 15 credits

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization.
for additional requirements, as the requirements for each area of specialization may exceed those specified here.

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<td>Human Development: Theory and Research</td>
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<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
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<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
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<tr>
<td>ED PSY 741</td>
<td>Cognitive Development</td>
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<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
<td></td>
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<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
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</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
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</tr>
<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
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<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
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<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
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<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
<td></td>
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<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
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**Urban Foundations**

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<td>EDUC 701</td>
<td>Urban Educational Issues</td>
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**Research Core**

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<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
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<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
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Select 7 credits from the following: 7

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<tbody>
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<td>Techniques of Educational and Psychological Measurement</td>
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</tr>
<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
<td></td>
</tr>
<tr>
<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
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</tr>
<tr>
<td>ED PSY 822</td>
<td>Item Response Theory</td>
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</tr>
<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
<td></td>
</tr>
<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
<td></td>
</tr>
<tr>
<td>ED PSY 825</td>
<td>Multivariate Methods</td>
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<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
<td></td>
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<tr>
<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
<td></td>
</tr>
<tr>
<td>ED PSY 829</td>
<td>Instrument Development</td>
<td></td>
</tr>
<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
<td></td>
</tr>
<tr>
<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 29

**Core Concentration Requirements**

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

**Other Requirements**

In addition to the requirements listed below, please refer to the program handbook for each concentration.

**Students Entering Without a Master’s**

In the School Psychology concentration, students entering without a master’s degree in School Psychology must complete the following:

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<th>Title</th>
<th>Credits</th>
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<td>ED PSY 751</td>
<td>Professional and Historical Issues in School Psychology</td>
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<td>ED PSY 752</td>
<td>Developmental Psychopathology</td>
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</tr>
<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
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**Cognitive and Developmental Sciences Concentration**

Select five of the following: 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
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</tr>
<tr>
<td>ED PSY 735</td>
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<td>ED PSY 741</td>
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<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
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</tr>
<tr>
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<td>Human Development: Study of Middle Childhood</td>
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<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
<td></td>
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<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
<td></td>
</tr>
<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
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</tr>
<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
<td></td>
</tr>
<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 15
Additional Requirements

Advising and the Major Professor
Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

Practicum
Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

Internship
Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

Publishable Paper
Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

Minor
Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Cognitive and Developmental Sciences and Educational Statistics and Measurement, based on consultation with an advisor.

Doctoral Preliminary Examination
The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

Proposal Hearing
A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

Exit Requirements
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

Time Limit
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

Educational Psychology, PhD: Counseling Psychology

UWM’s PhD specialization in Counseling Psychology follows a scientist-practitioner model that integrates theory, practice and research to give you the scientific knowledge and skills needed to work with multicultural urban populations and in diverse settings.

Our PhD students are expected to conduct research and to advance the science of counseling psychology through scholarly inquiry. Our program, which is accredited by the American Psychological Association*, will prepare you to work as a counseling psychologist in a variety of settings, including universities, hospitals, mental health clinics and private practice.

Educational Psychology PhD
The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).
Office of Program Consultation and Accreditation
American Psychological Association
750 1st Street, NE, Washington, DC 20002
Phone: (202) 336-5979
E-mail: apaaccred@apa.org
Website: American Psychological Association Website (https://www.apa.org/ed/accreditation/)

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years. (Not required for the Cognitive and Developmental Sciences area of concentration.)
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences concentration must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.

Credits and Courses

Core Educational Psychology Requirements
All doctoral students are required to complete 43-46 core credits in the areas of Discipline-Specific Knowledge and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Discipline-Specific Knowledge: Students must take 18-21 credits minimum of discipline-specific knowledge (history and systems of psychology, foundations of science, integration).

Research Methods Core: Up to 25 credits; students can do an additional 9 credits for an Educational Statistics and Measurement minor.

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724, and six credits at the 800 level or above.

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<tr>
<td>PSYCH 550</td>
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<td>Category 2: Foundations of Science</td>
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<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
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<td>PSYCH 854</td>
<td>Behavioral Neuroscience</td>
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<tr>
<td>Category 3: Advanced Integration (choose one)</td>
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<tr>
<td>PSYCH 714</td>
<td>Cognition and Emotion: The Affective Components of Human Thought</td>
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<tr>
<td>Category 4: Social Bases of Behavior (choose one)</td>
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<td>PSYCH 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
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<td>PSYCH 930</td>
<td>Seminar in Social Psychology</td>
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<td>Social Cognition in Educational Psychology</td>
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<td>Category 5: Developmental Basis of Behavior</td>
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<td>Techniques of Educational Research</td>
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<td>ED PSY 838</td>
<td>Research Practicum in Educational Psychology (4 semesters)</td>
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<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
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<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
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<td>AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Education</td>
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Counseling Psychology Concentration: Profession-Wide Competencies
Residence
The student must meet minimum Graduate School residence requirements (http://uw.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

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The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

Proposal Hearing
A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.
Exit Requirements
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

Time Limit
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

Educational Psychology, PhD: Educational Statistics and Measurement
Student learning is measured more than ever before, and that means that the education field needs professionals who have expertise in educational statistics and measurement.

You’ll find our graduates working in universities, state and federal agencies, test publishing organizations, school systems, state departments of education, marketing research companies and research centers, among other settings.

Educational Psychology PhD
The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department/) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

Office of Program Consultation and Accreditation
American Psychological Association
750 1st Street, NE, Washington, DC 20002
Phone: (202) 336-5979
E-mail: apaaccred@apa.org
Website: American Psychological Association Website (https://www.apa.org/ed/accreditation/)

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years. (Not required for the Cognitive and Developmental Sciences area of concentration.)
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant’s academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant’s intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences concentration must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.

Credits and Courses
Core Educational Psychology Requirements
All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master’s degree will have completed some of these courses. Courses taken during Master’s preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Psychological Foundations Core: Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without ED PSY 631 and ED PSY 640 must take these courses as part of their 12-credit minimum.

Urban Foundations: 3 credits minimum.

Research Methods Core: 15 credits
All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
<td></td>
</tr>
</tbody>
</table>
Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

Students Entering Without a Master’s

In the School Psychology concentration, students entering without a master’s degree in School Psychology must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 751</td>
<td>Professional and Historical Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 752</td>
<td>Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Statistics and Measurement Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 8 of the following:</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td></td>
</tr>
<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
<td></td>
</tr>
<tr>
<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>ED PSY 822</td>
<td>Item Response Theory</td>
<td></td>
</tr>
<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
<td></td>
</tr>
<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
<td></td>
</tr>
<tr>
<td>ED PSY 825</td>
<td>Multivariate Methods</td>
<td></td>
</tr>
<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
<td></td>
</tr>
<tr>
<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
<td></td>
</tr>
<tr>
<td>ED PSY 829</td>
<td>Instrument Development</td>
<td></td>
</tr>
<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
<td></td>
</tr>
<tr>
<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 24

Additional Requirements

Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/).
A doctoral student qualifies as a "doctoral candidate" upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

Exit Requirements
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

Time Limit
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

Multicultural Knowledge of Mental Health Practices, Graduate Certificate

As of Spring 2017, the Multicultural Knowledge of Mental Health Practices certificate has suspended admission. This means that unless you have been accepted into this certificate program prior to Spring 2017, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Multicultural Knowledge of Mental Health Practices certificate prior to Spring 2017.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
A graduate GPA of at least 3.0 or concurrent enrollment in a graduate degree program with a GPA of at least 3.0 is required for admission.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 704</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 705</td>
<td>Multicultural Practice: Awareness and Knowledge of Others</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>COUNS 740</td>
<td>Multicultural Mental Health Guidelines for Working with Latinos</td>
<td></td>
</tr>
<tr>
<td>COUNS 741</td>
<td>Multicultural Mental Health Guidelines for Working with LGBT Individuals</td>
<td></td>
</tr>
</tbody>
</table>
Additional Requirements

Exit Requirements
To earn the certificate, students must complete all certificate courses with a grade of B or better. No Incomplete (I) grades will be given.

Transfer Credit
No credits may be taken at an institution other than UWM.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count toward a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in a UWM graduate program.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/ Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

School Counseling, Graduate Certificate
The School Counseling Certificate program is provided for students who already possess a master's degree and need to meet the course requirements for certification as a K-12 School Counselor, as listed below. Courses can be waived if equivalent courses have already been completed, as determined by consultation with an advisor. The requirements for this certification program meet the certification standards of the Wisconsin Department of Public Instruction. For more information on the School Counseling: Initial Educator: K-12, five-year license, please see the Wisconsin Department of Public Instruction Website (http://www.dpi.state.wi.us/).

In order to be eligible to receive an initial educator license as a school counselor, students will need to:

1. Complete the coursework and practica listed below
2. Complete a portfolio assessment
3. Pass the national Praxis II licensing examination

Other states have different licensing standards and if you are interested in being eligible for a different state you are strongly encouraged to contact that state’s Department of Public Instruction to ascertain whether additional requirements are necessary.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
In order to successfully complete the certification sequence, a student must be accepted into the School Counseling Post-Master's Certificate Program. To be considered, applicants must have a graduate GPA of 3.0 or better, and must complete the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students will need to complete the following sequence of courses from the Counseling Core and the School Core, or have equivalent previous coursework, as determined in consultation with an advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
that of the degree program.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Certificate program time limits shall be established as follows:

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

School Psychology, EdS

This program will prepare you to work as a school psychologist and leads to certification from the Wisconsin Department of Public Instruction. As part of the EdS degree requirements, students will complete 600 hours of practicum and 1,200 hours of internship. Based on a scientist-practitioner model and coursework in educational psychology and complementary disciplines, our program emphasizes a concrete link between theory, research and practice through core applied courses and supervised practical and internships. The EdS program is approved by the National Association of School Psychologists.

Upon completion of the master’s degree in Educational Psychology (School Psychology concentration), the student will be considered for the Education Specialist Degree program in School Psychology. The student must file an application for the EdS with the Graduate School. Admission to the EdS program is dependent upon successful completion of master’s degree requirements. Students who are not admitted into the Education Specialist Degree program are not eligible for school psychology certification.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 732</td>
<td>Cognitive Behavioral Intervention Strategies in Education</td>
<td>24</td>
</tr>
<tr>
<td>ED PSY 952</td>
<td>Pediatric Psychology in Urban Settings</td>
<td></td>
</tr>
<tr>
<td>ED PSY 955</td>
<td>Advanced Therapeutic Interventions</td>
<td></td>
</tr>
<tr>
<td>ED PSY 974</td>
<td>Beginning Practicum in School Psychology</td>
<td></td>
</tr>
<tr>
<td>ED PSY 975</td>
<td>Advanced Practicum in School Psychology</td>
<td></td>
</tr>
<tr>
<td>ED PSY 976</td>
<td>MS Internship in School Psychology</td>
<td></td>
</tr>
</tbody>
</table>

School Psychology Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 579</td>
<td>Current Topics in Educational Psychology: (with appropriate topic)</td>
</tr>
<tr>
<td>ED PSY 779</td>
<td>Current Topics in Educational Psychology: (with appropriate topic)</td>
</tr>
</tbody>
</table>

Learning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking (or other course chosen in consultation with advisor)</td>
</tr>
</tbody>
</table>

Educational Methods & Intervention Strategies

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 852</td>
<td>Social, Psychological, and Biological Basis of Learning Disorders</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists</td>
</tr>
<tr>
<td>CURRINS 747</td>
<td>Reading Assessment and Instruction with Practicum: K-12 Part I</td>
</tr>
</tbody>
</table>
Additional Requirements

Education Specialist Final Project
Upon completion of all course work, including practicum, students will demonstrate their professional knowledge by completing a Education Specialist Final Project. The Final Project will demonstrate the student’s knowledge and proficiency in a clinical area such as innovative assessment practices, consultation, psychosocial therapy, or behavioral/academic intervention planning. Students will demonstrate their knowledge and proficiency by successfully completing one of the following projects:

- Produce a videotape showing a consultation session with a consultee
- Produce a videotape of a therapy session with a child or adolescent
- Develop a treatment manual for reducing psychosocial, behavioral or academic problems in children or adolescents
- Develop a parenting program for families with difficult or at-risk children
- Develop materials for an in-service program for teachers or parents (i.e., power point presentation, overheads, or manual)
- Develop a school-wide prevention program for at-risk students
- Develop an innovative assessment program for reducing academic, behavioral and/or psychosocial problems

The Education Specialist Final Projects are due at the end of the internship. Projects will be judged to be acceptable by the school psychology faculty in charge of the internship and the student’s advisor. Recommendations for satisfactory completion of all of the Education Specialist degree requirements will be made by the student’s advisor, and will be forwarded to the department chair.

Certification as a School Psychologist
Students completing the MS concentration and the EdS in School Psychology are eligible for certification as a School Psychologist in the State of Wisconsin. School Psychologists are eligible and encouraged to obtain National Certification as a School Psychologist (NCSP) by taking the national certification examination.

Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

Credits and Courses
All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 774</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 775</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 9 elective credits (see Potential Electives list below) 9

Recommended Field Work
Select 3-6 credits from the following: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 921</td>
<td>Field Instruction V</td>
<td></td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td></td>
</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18-21
Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in trauma-informed practice field settings, contingent on the respective department's field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

### Potential Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/JST 497</td>
<td>Study Abroad: (Bristol or South Africa or Austria)</td>
<td>1-6</td>
</tr>
<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice: (Qualifying topics: Violent &amp; Traumatized Families or Motivational Interviewing)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 691</td>
<td>Practice Methods in Social Work: (Topic: Community Building &amp; Mindfulness)</td>
<td>1-3</td>
</tr>
<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 818</td>
<td>Treatment of Co-Occurring Disorders</td>
<td>3</td>
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<tr>
<td>PSYCH 711</td>
<td>Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</td>
<td>1-4</td>
</tr>
<tr>
<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PH 732</td>
<td>Youth Mental Health Practice for Non Mental Health Professionals</td>
<td>3</td>
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<tr>
<td>COUNS 704 &amp; COUNS 705</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others (^1)</td>
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<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
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<td>COUNS 744</td>
<td>Multicultural Mental Health Guidelines, Working with First Nations Persons</td>
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<td>COUNS 812</td>
<td>Clinical Studies in Counseling</td>
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<tr>
<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
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<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
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<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
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</tbody>
</table>

\(^1\) COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

### Teaching and Learning

The Department of Teaching and Learning offers programs for bachelor’s, master’s and doctoral degrees. We prepare teachers at the undergraduate and post-baccalaureate level to work in settings serving culturally and linguistically diverse children. Our department features an American Sign Language studies degree, as well as training for interpreters of American Sign Language. We are committed to social justice, equity, and advocacy for children, youth, and families. We educate students to be effective, evidence-based practitioners and leaders, prepared to serve diverse communities situated locally, regionally, and globally.

At the undergraduate level, the department offers teacher education programs for Early Childhood (grades PK-3), Elementary Education (grades 1-8), Early Adolescence Through Adolescence (grades 6-12), and Early Childhood Through Adolescence Level (PK-12), in regular and special education. The department offers interpreter training and American Sign Language programs at the undergraduate level. At the graduate level, the department offers master's degrees in Curriculum and Instruction (with multiple specializations) and Exceptional Education, certificates in a wide variety of specialty areas, and participates in the School-wide Urban Education Doctoral Program.

- Advanced Study in Teaching and Learning, Graduate Certificate (p. 371)
- Arts Integration and Learning, Undergraduate Certificate (School of Education, Department of Teaching and Learning) (p. 372)
- Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning) (p. 373)
- Autism Spectrum Disorders, Graduate Certificate (p. 374)
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- Bilingual Education (Supplemental), Minor (p. 377)
- Curriculum and Instruction, MS (p. 378)
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- Curriculum and Instruction, MS: Early Childhood Education (p. 379)
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- Curriculum and Instruction, MS: English Education: Literature and Cultural Theory (p. 381)
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- Curriculum and Instruction, MS: Mathematics Teacher Leadership (p. 385)
- Curriculum and Instruction, MS: Reading Education (p. 386)
- Curriculum and Instruction, MS: Science Education (p. 387)
- Curriculum and Instruction, MS: Urban Social Studies (p. 388)
- Education, BS: Early Adolescence - Adolescence Level: Math (p. 388)
- Education, BS: Early Adolescence - Adolescence Level: Science (p. 391)

- Education, BS: Early Adolescence - Adolescence Level: Social Studies (p. 393)
- Education, BS: Early Adolescence- Adolescence Level: English (p. 396)
- Education, BS: Early Childhood (p. 399)
- Education, BS: Early Childhood- Adolescence: English as a Second Language (p. 402)
- Education, BS: Early Childhood- Adolescence: World Language (p. 404)
- Education, BS: Elementary Education (p. 408)
- Education, BS: Inclusion and Accessibility Studies (p. 412)
- English as a Second Language, Minor (p. 413)
- Exceptional Education, BS: Early Adolescence - Adolescence (p. 414)
- Exceptional Education, BS: Early Childhood (p. 418)
- Exceptional Education, BS: K4-12 Special Education (p. 420)
- Exceptional Education, MS (p. 423)
- Global Educator, Graduate Certificate (p. 424)
- Global Educator, Undergraduate Certificate (p. 426)
- Inclusion and Accessibility Studies, Minor (p. 427)
- Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate (p. 428)
- Mathematics Teacher Leadership, Graduate Certificate (p. 429)
- Transition for Students with Disabilities, Graduate Certificate (p. 430)
- World Language, Minor (p. 431)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Barbara Bales</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td>✗</td>
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<tr>
<td>Maggie Bartlett</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
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<tr>
<td>Craig Berg</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
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<tr>
<td>Jennifer Brownson</td>
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<tr>
<td>Ashley Cain</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Pamela Conine</td>
<td>Clinical Associate Professor</td>
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<tr>
<td>Candance Doerr-Stevens</td>
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<td>Elizabeth Drame</td>
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<tr>
<td>Leanne Evans</td>
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<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Nancy File</td>
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<td>PhD</td>
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<tr>
<td>Alison Ford</td>
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<tr>
<td>Chris Gwiazdowski</td>
<td>Senior Lecturer</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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<tr>
<td>Tania Habeck</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of South Florida</td>
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<td></td>
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<tr>
<td>Tammy Hartmann</td>
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<tr>
<td>Paul Haubrich</td>
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<tr>
<td>Jeffrey Hawkins</td>
<td>Associate Professor</td>
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<td>University of San Francisco</td>
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<tr>
<td>Angel Hessel</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>DeAnn M. Huinker</td>
<td>Professor</td>
<td>EdD</td>
<td>University of Michigan</td>
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<tr>
<td>Nicholas Husbye</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Indiana University</td>
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<tr>
<td>Mary Jett</td>
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<td>PhD</td>
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<tr>
<td>Tatiana Joseph</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>✗</td>
</tr>
</tbody>
</table>
Advanced Study in Teaching and Learning, Graduate Certificate

This certificate provides individual teachers with the knowledge, skills, and research tools to make evidence-based claims as to their effectiveness in the classroom. The set of five, 3-credit graduate courses prepares professionals with the knowledge base needed to engage in data-driven, action research that draws from the use of formative, benchmark, and summative assessments and leads to effective upgrades in instruction. Certificate completers will be positioned to become school and district leaders having an integrated set of instruction, assessment, and research skills needed to advance student achievement levels in their respective disciplines.

Certificates of Advanced Study in Teaching and Learning may be earned in the following areas:

- Science
- Mathematics
- Reading
- Social Studies
- Interdisciplinary Studies
- English
- Literary Studies

- Adolescent Literature
- Children’s Literature
- Writing
- Second Language Acquisition

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Applicants must have a bachelor’s degree with an undergraduate GPA of 2.75 or a graduate degree with a minimum 3.0 GPA.

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Five required, 3-credit, graduate-level courses. Total credits: 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Course I</strong></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
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<td></td>
<td>A curriculum elective in the disciplinary focus area</td>
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<tr>
<td><strong>Course II</strong></td>
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<td>Select one graduate-level elective in the student’s disciplinary focus area</td>
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<tr>
<td><strong>Course III</strong></td>
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<td>Select one of the following discipline-specific advanced methods courses:</td>
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<tr>
<td>CURRINS 710</td>
<td>Curriculum for Early Adolescents</td>
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<tr>
<td>CURRINS 721</td>
<td>Advanced Problems in the Teaching of Social Studies</td>
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<td>CURRINS 724</td>
<td>Advanced Problems in Science Education</td>
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<tr>
<td>CURRINS 730</td>
<td>Mathematics in Elementary Education</td>
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<td>CURRINS 731</td>
<td>Mathematics in the Secondary School</td>
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<td>CURRINS 734</td>
<td>Advanced Problems in the Teaching of Foreign Languages</td>
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<td>CURRINS 746</td>
<td>Advanced Reading Education</td>
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<tr>
<td>CURRINS 751</td>
<td>Language Arts in the Elementary School</td>
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<tr>
<td>CURRINS 753</td>
<td>Teaching Language and Composition</td>
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<tr>
<td>CURRINS 754</td>
<td>Teaching Literature</td>
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<tr>
<td>Other courses as approved by the certificate program committee</td>
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<td><strong>Course IV</strong></td>
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<tr>
<td>CURRINS/ED PSY 725</td>
<td>Improving Teaching and Learning with Classroom-Based Assessments</td>
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<td><strong>Course V — Capstone</strong></td>
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<td>Select one of the following:</td>
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<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
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<tr>
<td></td>
<td>A capstone elective in the disciplinary focus area</td>
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</table>

Total Credits 15

Additional Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Transfer credits will be considered only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the first three courses that constitute the certificate program. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit

Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Arts Integration and Learning, Undergraduate Certificate (School of Education, Department of Teaching and Learning)

The Certificate in Arts Integration and Learning is a 15 credit, multidisciplinary program offered jointly by the Department of Art and Design in the Peck School of the Arts and the Department of Curriculum & Instruction in the School of Education.

This program is designed to give undergraduate and post baccalaureate students an understanding of best practices in arts integration with an emphasis on project based learning through students’ capstone experience. The Certificate is for students in any teacher certification program at the University of Wisconsin-Milwaukee, but especially for Early Childhood Education; Middle Childhood/Early Adolescence Education; Art, Music, Dance, or Theatre Education students who wish to complement their major with an additional concentration in Arts Integration.
The Certificate in Arts Integration and Learning is also open to all students seeking a Bachelor’s degree or post baccalaureate certification from UWM and to students who previously received a Bachelor’s degree with teacher certification from UWM or any other accredited college or university. Additionally, the Certificate is open to non-degree students who have a strong interest in this area. Students completing the Certificate not in conjunction with a degree must be admitted to the university as non-degree students and meet regular university admission requirements. Students completing the Certificate not in conjunction with a degree are not eligible for financial aid.

Requirements
The Arts Integration and Learning Certificate consists of 15 credits. Students must achieve a grade point average of 2.5 or above in all courses counting towards the Certificate. Courses counting for the Certificate may not be taken on a credit/no credit basis.

<table>
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<td>ART ED 227</td>
<td>Introduction to Art Education</td>
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<td>CURRINS 538</td>
<td>Literacy 3: Introduction to New Literacies</td>
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<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
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<td>CURRINS 651</td>
<td>Literature for the Young Child</td>
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<td>Electives</td>
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<td>ART 150</td>
<td>Multicultural America</td>
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<td>ART 306</td>
<td>Introduction to Community Art</td>
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<td>ART 402</td>
<td>Art and Design Workshop:</td>
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<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education</td>
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<td>ART ED 228</td>
<td>Learning Processes in Art Education</td>
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<td>CURRINS 400</td>
<td>Field Work in Curriculum and Instruction:</td>
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<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
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<td>CURRINS 579</td>
<td>Current Topics in Curriculum and Instruction:</td>
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<tr>
<td>DANCE 219</td>
<td>Arts in Community Service</td>
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<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
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<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
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<td>DANCE 460</td>
<td>Teaching Dance in Community Settings</td>
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<td>FILM 150</td>
<td>Multicultural America</td>
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<td>MUS ED 260</td>
<td>Making Music Connections with Children</td>
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<td>THEATRE 111</td>
<td>Theatre Games</td>
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<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
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<td>THEATRE 260</td>
<td>Storytelling</td>
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<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
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<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
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<td>Capstone Course</td>
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<td>ART ED 489 or CURRINS 500</td>
<td>Art Education Workshop: Workshop in Curriculum and Instruction:</td>
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<td>Total Credits</td>
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Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning)
The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The Departments of Occupational Science and Technology and Communication Sciences Disorders in the College of Health Sciences, along with the Department of Teaching and Learning in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses. Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, and an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

Credits and Courses
Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the undergraduate level. One of the following is recommended to meet the computer applications requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 730</td>
<td>Assistive and Instructional Technology for Students with Disabilities</td>
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</table>
The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)</td>
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<tr>
<td>Assessment</td>
<td>Select one of the following:</td>
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<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
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<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
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</tr>
<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td></td>
</tr>
<tr>
<td>Intervention</td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 596</td>
<td>Vision II: Practical Aspects of Visual Impairment &amp; Low Vision Intervention</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 735</td>
<td>Technology &amp; Instruction for Students with Disabilities</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 777</td>
<td>Fieldwork in Assistive Technology</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 799</td>
<td>Independent Reading</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 791</td>
<td>Research Experience in Communication Sciences and Disorders</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 799</td>
<td>Independent Studies</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Select an additional 3 credits from either Assessment or Intervention list</td>
<td>3</td>
</tr>
<tr>
<td>Capstone</td>
<td>OCCTHPY 760 Assistive and Rehabilitation Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

1. Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.
2. Any U/G course must be taken at graduate level.

Additional Requirements

Minimum Grade Requirement
To be awarded the certificate, students must earn a minimum grade of B in the certificate courses (B- not allowed).

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Autism Spectrum Disorders, Graduate Certificate

The Graduate Autism Spectrum Disorder Certificate program is an interdisciplinary certificate where the broad goal is to provide a foundation in the causes and characteristics of ASD, and interventions in various areas (e.g., communication, sensory needs, etc.). In addition, this certificate addresses challenges with assessment and early identification of children with ASD in diverse communities. The elective courses address areas related to addressing the unique needs of individuals on the spectrum, such as their language development needs and behavioral needs.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
• Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
This certificate program requires a minimum of 15 credits. Students take two required courses and then, in consultation with the Program Coordinator, choose their remaining 9 elective credits from one or more disciplines.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 760</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 761</td>
<td>Methods for Working with Individuals with Autism</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Courses may be taken in one discipline or across discipline areas. Select 9 credits from the list of options below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 601G</td>
<td>Behavioral Supports</td>
</tr>
<tr>
<td>or EXCEDUC 671G</td>
<td>Behavior Support &amp; Intervention for Mid/High Students with Disabilities</td>
</tr>
<tr>
<td>EXCEDUC 679G</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
</tr>
<tr>
<td>EXCEDUC 762</td>
<td>Academic/Social Challenges of Individuals with ASD: Adv. Interventions</td>
</tr>
<tr>
<td>EXCEDUC 775</td>
<td>Field Work: Individuals with Autism Spectrum Disorders 1</td>
</tr>
</tbody>
</table>

Psychology
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 502G</td>
<td>Applied Behavior Analysis</td>
</tr>
<tr>
<td>PSYCH 812</td>
<td>Field Placement in Psychology</td>
</tr>
</tbody>
</table>

Communication Sciences & Disorders
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 706</td>
<td>Language Assessment and Intervention</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
</tr>
<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
</tr>
<tr>
<td>COMSDIS 720</td>
<td>Advanced Clinical Practice in Speech-Language Pathology</td>
</tr>
<tr>
<td>COMSDIS 799</td>
<td>Independent Studies (In conjunction with content elective)</td>
</tr>
</tbody>
</table>

Social Work
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 562G</td>
<td>Child and Family Services</td>
</tr>
<tr>
<td>SOC WRK 630G</td>
<td>Families and Poverty</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
</tr>
<tr>
<td>SOC WRK 765</td>
<td>Social Work Boundaries and Ethics in Professional Practice</td>
</tr>
<tr>
<td>SOC WRK 771</td>
<td>Development of the Family Over the Life Span</td>
</tr>
<tr>
<td>SOC WRK 774</td>
<td>Trauma Counseling I: Theory and Research</td>
</tr>
<tr>
<td>SOC WRK 775</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
</tr>
</tbody>
</table>

Occupational Therapy
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 590G</td>
<td>Topics in Occupational Therapy (any open to non-OT students)</td>
</tr>
<tr>
<td>OCCTHPY 620G</td>
<td>Introduction to Assistive and Rehabilitation Technology</td>
</tr>
<tr>
<td>OCCTHPY 625G</td>
<td>Design and Disability</td>
</tr>
<tr>
<td>OCCTHPY 740</td>
<td>Occupational Therapy with Children and Families</td>
</tr>
<tr>
<td>OCCTHPY 760</td>
<td>Assistive and Rehabilitation Technology</td>
</tr>
</tbody>
</table>

Total Credits 15

1 Prerequisites EXCEDUC 760 & EXCEDUC 761; may be taken concurrently with EXCEDUC 761.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as the course being substituted. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
Autism Spectrum Disorders, Undergraduate Certificate

• All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
• Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Autism Spectrum Disorders, Undergraduate Certificate

The Autism Spectrum Certificate program will train students to help persons with an autism spectrum disorder (ASD) in numerous settings. Potential students include therapists and family members working with children at home, special and general education teachers working with children in school settings, and job coaches working with young adults and adults in the work place.

Through courses, field experiences, and other planned learning experiences, students will critically examine the characteristics, etiology, and prevalence of ASD and related disorders; understand assessment, diagnosis, and intervention; learn how to work with family members of individuals with ASD; understand the language, communication, and social needs of individuals with ASD; and learn to apply interventions.

Requirements
Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 560</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 561</td>
<td>Methods for Working with Individuals with Autism Spectrum Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>

Field Experience
Select one of the following or another field experience approved by the faculty advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 585</td>
<td>Field Experience in Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 292</td>
<td>Psychology Field Placement-Lower Division</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Choose two:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
</tr>
<tr>
<td>ED PSY 575</td>
<td>Infant and Early Childhood Assessment</td>
</tr>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
</tr>
<tr>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>PSYCH 502</td>
<td>Applied Behavior Analysis</td>
</tr>
<tr>
<td>COMSDIS 351</td>
<td>Clinical Process II: Child Language Disorders</td>
</tr>
</tbody>
</table>

Total Credits 15

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

• Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.
• Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.
**Transfer Student Not Yet Enrolled at UWM?**
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

**Graduate Advising**
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

**Bilingual Education (Supplemental), Minor**
The University of Wisconsin-Milwaukee offers coursework for a supplemental certification in Bilingual Education. This program is designed for individuals who wish to teach in a classroom in which two languages (English and another language) are used for instruction. Students wishing to pursue this certification must be in process of or already have a certification.

**Requirements**

<table>
<thead>
<tr>
<th>Professional Education Requirements</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Student Teaching**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 442</td>
<td>Student Teaching in Bilingual Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 445</td>
<td>Seminar in Language Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 24

1. Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 377) for details.

2. Not required for students currently completing a portfolio in their major certification.

**Additional Requirements for Certification**
- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Undergraduate students must meet the graduation requirements for their primary certification.
- Program Portfolio - based on the 10 WI Teacher Standards.

**Benchmarks**

**Student Teaching**
Prior to requesting/being assigned a student teaching placement, students must:

- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. (http://uwm.edu/education/academics/clinical-experiences/)

To be approved, students must ALSO meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience

**Undergraduate Advising**
Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

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- Understand you are ultimately responsible for creating your educational, life, and career plans.
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Curriculum and Instruction, MS
The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
The minimum degree requirement is 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>CURRINS 800</td>
<td>Master’s Seminar in Curriculum and Instruction (3 credits)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 890</td>
<td>Master’s Research or Thesis (3-6 credits)</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 to 15 credits in a focus area approved by the student’s major professor

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements
Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications
Graduate students seeking initial teacher certification or added certification(s) can arrange their master’s degree program so that a portion of the credits earned towards the master’s degree can also serve as partial fulfillment of teacher certification requirements.

Curriculum and Instruction, MS: Cultures and Communities Education
The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements
Application Deadlines
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Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.
Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

### Credits and Courses

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
</tr>
<tr>
<td>CurrINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>CurrINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CurrINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>CurrINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CurrINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 12 to 15 credits in a focus area approved by the student's major professor</td>
<td>12-15</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>CurrINS 800</td>
<td>Master's Seminar in Curriculum and Instruction (3 credits)</td>
<td></td>
</tr>
<tr>
<td>CurrINS 890</td>
<td>Master's Research or Thesis (3-6 credits)</td>
<td></td>
</tr>
</tbody>
</table>

### Cultures and Communities Education Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED 882</td>
<td>Multicultural Studies Practicum</td>
<td>3</td>
</tr>
<tr>
<td><strong>Focus Area Courses (minimum of 12 credits)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CurrINS 505</td>
<td>Collaborative Relationships with Families, Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CurrINS 508</td>
<td>Language and Urban Schooling</td>
<td>3</td>
</tr>
<tr>
<td>CurrINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CurrINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ED 881</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td>INF 867</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional Requirements

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

**Certifications**

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

### Curriculum and Instruction, MS: Early Childhood Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements to be considered for admission to the program.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
Credits and Courses
The minimum degree requirement is 30 credits, including:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
</tr>
<tr>
<td>Currins 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>Currins 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>Currins 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>Currins 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or Currins 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 12 to 15 credits in a focus area approved by the student's major professor</td>
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</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>Currins 800</td>
<td>Master's Seminar in Curriculum and Instruction (3 credits)</td>
<td>3-6</td>
</tr>
<tr>
<td>Currins 890</td>
<td>Master's Research or Thesis (3-6 credits)</td>
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</table>

**Early Childhood Education Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required courses:</td>
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<tr>
<td>Currins 702</td>
<td>Curriculum Problems and Practices in Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>Currins 703</td>
<td>Advanced Curriculum in Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>Currins 802</td>
<td>Recent Research in the Field of Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>Currins 803</td>
<td>Reflective Practice: Urban Early Childhood Teaching</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

**Certifications**
Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

**Curriculum and Instruction, MS: English Education: Creative Writing**
The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

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**Admission**
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**Credits and Courses**
The minimum degree requirement is 30 credits, including:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>15 credits in Curriculum and Instruction core areas</td>
<td>15</td>
</tr>
<tr>
<td>Currins 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>Currins 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td>3</td>
</tr>
<tr>
<td>Currins 658</td>
<td>Teaching and Assessing English</td>
<td></td>
</tr>
<tr>
<td>Currins 742</td>
<td>UWM Writing Project</td>
<td></td>
</tr>
<tr>
<td>Currins 753</td>
<td>Teaching Language and Composition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td>3</td>
</tr>
<tr>
<td>Currins 657</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools</td>
<td></td>
</tr>
<tr>
<td>Currins 754</td>
<td>Teaching Literature</td>
<td></td>
</tr>
<tr>
<td>Currins elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

1 For initial certifiers only.

**Certifications**
Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

**Curriculum and Instruction, MS: English Education: Creative Writing**
The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.
Focus Courses

12 credits in focus area (at least one course should be at the 800 level, two at the 700 level)

- CURRINS 742 UWM Writing Project:
- ENGLISH 704 Teaching Creative Writing
- ENGLISH 715 Narrative Craft and Theory:
- ENGLISH 716 Poetic Craft and Theory:
- ENGLISH 718 Directed Writing in Poetry
- ENGLISH 752 Essay as Genre
- ENGLISH 813 Special Topics in Creative Writing:
- ENGLISH 815 Seminar in Fiction Writing:
- ENGLISH 816 Seminar in Poetry Writing:

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications
Graduate students seeking initial teacher certification or added certification(s) can arrange their master’s degree program so that a portion of the credits earned towards the master’s degree can also serve as partial fulfillment of teacher certification requirements.

Curriculum and Instruction, MS: English Education: Literature and Cultural Theory

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements

Application Deadlines
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Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

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<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 658</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project:</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose one:

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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 657</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 754</td>
<td>Teaching Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

For initial certifiers only.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 800</td>
<td>Master’s Seminar in Curriculum and Instruction</td>
<td>3-6</td>
</tr>
<tr>
<td>CURRINS 890</td>
<td>Master’s Research or Thesis</td>
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</tr>
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</table>

English Education: Literature and Cultural Theory

Focus of Study

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 649</td>
<td>Children’s Literature</td>
<td></td>
</tr>
<tr>
<td>CURRINS 650</td>
<td>Reading Interests of Adolescents</td>
<td></td>
</tr>
<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 740</td>
<td>Approaches to the Modern I</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 741</td>
<td>Approaches to the Modern II</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 768</td>
<td>Linguistic Perspectives on Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 771</td>
<td>Literature of the English Renaissance:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 772</td>
<td>Restoration and Eighteenth-Century Literature:</td>
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<tr>
<td>ENGLISH 774</td>
<td>Literature in Victorian England:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 776</td>
<td>Women Writers:</td>
<td></td>
</tr>
</tbody>
</table>

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

1 For initial certifiers only.
ENGLISH 777  American Literature to 1830:
ENGLISH 778  Native American Literature:
ENGLISH 779  American Literature, 1830-1900:
ENGLISH 780  African American Literature:
ENGLISH 781  Modern American Literature:
ENGLISH 782  Contemporary Literature:
ENGLISH 783  World Literature in English:
ENGLISH 784  Topics in Transnational Literature
ENGLISH 814  Seminar in Irish Literature:
ENGLISH 822  Seminar in Poetry:
ENGLISH 824  Seminar in Special Topics in Literature:
ENGLISH 825  Seminar in Major Figures:
ENGLISH 827  Seminar in Contemporary Literature:
ENGLISH 828  Seminar in Comparative Literature:
ENGLISH 843  Seminar in Renaissance Prose and Poetry:
ENGLISH 845  Seminar in Shakespeare:
ENGLISH 861  Seminar in Romantic Literature:
ENGLISH 862  Seminar in Victorian Literature:
ENGLISH 871  Seminar in African American Literature:
ENGLISH 872  Seminar in Women Writers:
ENGLISH 874  Seminar in World Literature in English:
ENGLISH 875  Seminar in Modern Literature:
ENGLISH 878  Seminar in Feminist Critical Theory:
ENGLISH 879  Seminar in Native American Literature:
ENGLISH 881  Seminar in Colonial American Literature:
ENGLISH 882  Seminar in Nineteenth-Century American Literature:
ENGLISH 883  Seminar in Twentieth-Century American Literature:
ENGLISH 885  Seminar in Critical Theory:

Additional Requirements

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Curriculum and Instruction, MS: English Education: Media, Cinema, and Digital Studies
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<tbody>
<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 658</td>
<td>Teaching and Assessing English</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project:</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 753</td>
<td>Teaching Language and Composition</td>
<td>3</td>
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<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 657</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 754</td>
<td>Teaching Literature</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS elective</td>
<td></td>
<td>3</td>
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<tbody>
<tr>
<td>CURRINS 800</td>
<td>Master’s Seminar in Curriculum and Instruction</td>
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</tr>
<tr>
<td>CURRINS 890</td>
<td>Master’s Research or Thesis</td>
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English Education: Media, Cinema, and Digital Studies
Concentration

Focus of Study

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Focus Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12 credits in focus area (at least one course should be at the 800 level, two at the 700 level)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
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<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project:</td>
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<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory.</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td></td>
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<tr>
<td>ENGLISH 741</td>
<td>Approaches to the Modern II</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 876</td>
<td>Seminar in Media Culture</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 877</td>
<td>Seminar in Film Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 878</td>
<td>Seminar in Feminist Critical Theory:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 885</td>
<td>Seminar in Critical Theory:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 887</td>
<td>Understanding Participatory Media</td>
<td></td>
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</table>

Additional Requirements

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Certifications
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Curriculum and Instruction, MS: English Education: Rhetoric and Professional Writing

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

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Admission

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Credits and Courses

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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 658</td>
<td>Teaching and Assessing English 1</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project:</td>
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</tr>
<tr>
<td>CURRINS 753</td>
<td>Teaching Language and Composition</td>
<td></td>
</tr>
<tr>
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<tr>
<td>CURRINS 657</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools 1</td>
<td>3</td>
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<tr>
<td>CURRINS 754</td>
<td>Teaching Literature</td>
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<tr>
<td>CURRINS elective</td>
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</table>

1 For initial certifiers only.

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 800</td>
<td>Master's Seminar in Curriculum and Instruction</td>
<td>3-6</td>
</tr>
<tr>
<td>CURRINS 890</td>
<td>Master's Research or Thesis</td>
<td></td>
</tr>
</tbody>
</table>

English Education: Rhetoric and Professional Writing

Focus of Study

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
<td></td>
</tr>
<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project:</td>
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</tr>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ENGLISH 704</td>
<td>Teaching Creative Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
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<tr>
<td>ENGLISH 707</td>
<td>Writing for Business Management</td>
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<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
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<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
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<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
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<td>ENGLISH 711</td>
<td>Topics in Public and Professional Writing</td>
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<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
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<tr>
<td>ENGLISH 713</td>
<td>Research Methods in Rhetorics, Literacies, and Community Engagement</td>
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<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
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<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
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<td>ENGLISH 751</td>
<td>History of Rhetoric II:</td>
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<td>ENGLISH 752</td>
<td>Essay as Genre</td>
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<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
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<td>Post-Secondary Composition-Topics in Pedagogical Theory</td>
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<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
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<tr>
<td>ENGLISH 758</td>
<td>Writing Workshop in Rhetoric and Composition</td>
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<tr>
<td>ENGLISH 761</td>
<td>Discourse Analysis</td>
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<td>ENGLISH 764</td>
<td>Sociolinguistics</td>
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<td>ENGLISH 769</td>
<td>Topics in Linguistics:</td>
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<td>Seminar in Linguistics:</td>
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<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
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<tr>
<td>ENGLISH 853</td>
<td>Seminar in Contemporary Rhetorical Theory</td>
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</tr>
<tr>
<td>ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 855</td>
<td>Seminar in Public Rhetorics and Community Engagement</td>
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<td>ENGLISH 878</td>
<td>Seminar in Feminist Critical Theory:</td>
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<td>ENGLISH 890</td>
<td>Science, Communications, &amp; Public Engagement</td>
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<td>ENGLISH 902</td>
<td>STEM and Public Debate</td>
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<tr>
<td>ENGLISH 903</td>
<td>Presenting STEM</td>
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</table>

### Additional Requirements

**Major Professor as Advisor**

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**Certifications**

Graduate students seeking initial teacher certification or added certification(s) can arrange their master’s degree program so that a portion of the credits earned towards the master’s degree can also serve as partial fulfillment of teacher certification requirements.

### Curriculum and Instruction, MS: Mathematics Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

### Admission Requirements

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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
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<td>Currins 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>Currins 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>Currins 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
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<tr>
<td>or Currins 774</td>
<td>College Teaching</td>
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</tr>
<tr>
<td>Select 12 to 15 credits in a focus area approved by the student's major professor</td>
<td>12-15</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3-6</td>
</tr>
<tr>
<td>Currins 800</td>
<td>Master's Seminar in Curriculum and Instruction (3 credits)</td>
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</tr>
</tbody>
</table>
CURRINS 890       Master’s Research or Thesis (3-6 credits)

Mathematics Education Concentration

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
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<td>Currins</td>
<td>Qualifying Courses (minimum of 15 graduate credits)</td>
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<td>Currins</td>
<td>Workshop in Curriculum and Instruction:</td>
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<td>Currins</td>
<td>Developing Mathematical Thinking in Young Children</td>
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<td>Currins</td>
<td>Teaching of Mathematics: Secondary</td>
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</tr>
<tr>
<td>Currins</td>
<td>Improving Mathematics Teaching and Learning:</td>
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</tr>
<tr>
<td>Currins</td>
<td>Mathematics Learners in Special Education I</td>
<td>3</td>
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<tr>
<td>Currins</td>
<td>Mathematics Learners in Special Education II</td>
<td>3</td>
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<td>Currins</td>
<td>Current Topics in Curriculum and Instruction:</td>
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</tr>
<tr>
<td>Currins</td>
<td>Mathematics Education:</td>
<td>1-3</td>
</tr>
<tr>
<td>Currins</td>
<td>Instructional Trajectories for Fraction Concepts and Operations</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Principles and Practices of Teaching Geometry and Geometric Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Principles and Practices of Teaching Algebraic Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Change and Change Strategies in Education</td>
<td>1-4</td>
</tr>
<tr>
<td>Currins</td>
<td>Curriculum and Standards for School Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Mathematics in Elementary Education</td>
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</tr>
<tr>
<td>Currins</td>
<td>Mathematics in the Secondary School</td>
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</tr>
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<td>Currins</td>
<td>Mathematics Instructional Leadership</td>
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<tr>
<td>Currins</td>
<td>Seminar in Elementary School Mathematics Education</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Seminar in Mathematics Urban Education</td>
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<tr>
<td>Ed Psy</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Math 690</td>
<td>Topics in Mathematics:</td>
<td>3</td>
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Curriculum and Instruction, MS: Mathematics Teacher Leadership

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<tbody>
<tr>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
<td></td>
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<tr>
<td>Currins</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>Currins</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>Currins</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
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<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>Currins</td>
<td>Master’s Seminar in Curriculum and Instruction (3 credits)</td>
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</tr>
<tr>
<td>Currins</td>
<td>Master's Research or Thesis (3-6 credits)</td>
<td></td>
</tr>
</tbody>
</table>
Mathematics Teacher Leadership Concentration

Required Course (3 credits)
- CURRINS 761 Mathematics Instructional Leadership 3

Elective Courses (minimum 12 credits)
- CURRINS 520 Developing Mathematical Thinking in Young Children 3
- CURRINS 560 Improving Mathematics Teaching and Learning: 1-3
- CURRINS 561 Mathematics Learners in Special Education I 3
- CURRINS 579 Current Topics in Curriculum and Instruction: 1-3
- CURRINS 580 Mathematics Education: 1-3
- CURRINS 624 Instructional Trajectories for Fraction Concepts and Operations 3
- CURRINS 625 Principles and Practices of Teaching Geometry and Geometric Thinking 3
- CURRINS 626 Principles and Practices of Teaching Algebraic Reasoning 3
- CURRINS 629 Change and Change Strategies in Education 1-4
- CURRINS 720 Curriculum and Standards for School Mathematics 3
- CURRINS 725 Improving Teaching and Learning with Classroom-Based Assessments 3
- CURRINS 730 Mathematics in Elementary Education 3
- CURRINS 731 Mathematics in the Secondary School 3
- CURRINS 779 Current Topics in Curriculum and Instruction: 1-3
- CURRINS 830 Seminar in Elementary School Mathematics Education 3

Additional Requirements

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Curriculum and Instruction, MS: Reading Education

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Admission Requirements

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Credits and Courses

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Select 12 credits in Curriculum and Instruction core areas 12
- CURRINS 701 Curriculum Planning and Ideologies 3
- CURRINS 705 Research in Schools and Communities 3
- CURRINS 716 Teaching in Urban & Diverse Communities 1-4
- CURRINS 714 Analysis of Instruction to Improve Teaching and Learning 3
- CURRINS 774 College Teaching 3

Select 12 to 15 credits in a focus area approved by the student's major professor 12-15

Select one of the following: 3-6
- CURRINS 800 Master's Seminar in Curriculum and Instruction (3 credits)
- CURRINS 890 Master's Research or Thesis (3-6 credits)

Reading Education Concentration

Qualifying Courses (15 cr)
- CURRINS 543 Developing Biliteracy 3
- CURRINS 545 Reading in the Content Areas: Middle, Junior, and Senior High School 3
- CURRINS 643 Balanced Literacy Instruction in the Elementary School 1-3
- CURRINS 646 University of Wisconsin System Reading Research Symposium 1-3
- CURRINS 647 Early Reading Empowerment: Part 1 3
 CURRINS 648 Early Reading Empowerment: Part 2 3
 CURRINS 650 Reading Interests of Adolescents 3
 CURRINS 655 Applied Educational Linguistics 3
 CURRINS 700 Field Work in Schools, Agencies and Institutions: 2-6
 CURRINS 747 Reading Assessment and Instruction with Practicum: K-12 Part I 3
 CURRINS 748 Reading Assessment and Instruction with Practicum, K-12: Part II 3
 CURRINS 799 Independent Reading: (With appropriate faculty) 1-3
 CURRINS 846 Seminar in Developmental Reading: 3
 EXCEDUC 600 Survey of Exceptional Education 3
 EXCEDUC 715 Issues and Trends in Exceptional Education 3

**Additional Requirements**

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<td>Curriculum Planning and Ideologies</td>
<td>3</td>
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<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
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<tr>
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<td>Master's Research or Thesis (3-6 credits)</td>
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</tbody>
</table>

**Science Education Concentration**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
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<tr>
<td>CURRINS 518</td>
<td>Science Methods I: Middle/Secondary Methods and Fieldwork</td>
<td>3-6</td>
</tr>
<tr>
<td>CURRINS 519</td>
<td>Science Methods II: Middle/Secondary Methods and Fieldwork</td>
<td>3-6</td>
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<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
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<tr>
<td>CURRINS 570</td>
<td>Improving Science Teaching and Learning:</td>
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<tr>
<td>ED PSY 579</td>
<td>Current Topics in Educational Psychology</td>
<td>1-3</td>
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<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
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<td>EXCEDUC 536</td>
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<td>EXCEDUC 537</td>
<td>Math and Science Methods for All Learners</td>
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**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not
The minimum degree requirement is 30 credits, including:

Credits and Courses
required for the degree.
earned in making up deficiencies may be counted as program credits
School and the individual graduate program unit. No course credits
enrolled semesters. The deficiencies are monitored by the Graduate
The student is expected to satisfy deficiency requirements within three

deficiencies provided that the deficiencies amount to no more than 6
Applicants may be admitted with specific program-defined course
deficiencies provided that the deficiencies amount to no more than 6
credits.
The student is expected to satisfy deficiency requirements within three
enrolled semesters. The deficiencies are monitored by the Graduate
School and the individual graduate program unit. No course credits
earned in making up deficiencies may be counted as program credits
required for the degree.

Curriculum and Instruction, MS: Urban Social Studies

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
The minimum degree requirement is 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>

| Select 12 to 15 credits in a focus area approved by the student’s major professor | 12-15 |
| Select one of the following: | |
| CURRINS 800 | Master’s Seminar in Curriculum and Instruction (3 credits) | |
| CURRINS 890 | Master’s Research or Thesis (3-6 credits) | |

Urban Social Studies Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 721</td>
<td>Advanced Problems in the Teaching of Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 983</td>
<td>Contemporary Urban Social Structure and Change</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 913</td>
<td>Seminar in Urban Political Process</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 905</td>
<td>Seminar: Selected Topics in Geography.</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 934</td>
<td>Seminar: Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 900</td>
<td>Seminar on U.S. History.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 980</td>
<td>Growth of Urban Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 901</td>
<td>Seminar: Urban Social Structure</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications
Graduate students seeking initial teacher certification or added certification(s) can arrange their master’s degree program so that a portion of the credits earned towards the master’s degree can also serve as partial fulfillment of teacher certification requirements.

Education, BS: Early Adolescence - Adolescence Level: Math

The Mathematics Education Program is available for students who plan to teach mathematics in 6th through 12th grade. Mathematics Program students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching mathematics subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Mathematics licensure as their initial certification:

- Bilingual
- English as a Second Language
## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 390)

#### Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURNRS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>or CURNRS 328</td>
<td>Introduction to Teaching Science in Middle and High School</td>
<td></td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 12

1. Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class. Program may allow fulfillment of Act 31 with a 1-day workshop.

#### Content Area

Choose one of the following 2 courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I (QL-B, GER-NS)</td>
<td>4-5</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I (QL-B, GER-NS)</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>or MATH 222</td>
<td>Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III (not required if MATH 221 and MATH 222 have been taken)</td>
<td>0-4</td>
</tr>
<tr>
<td>MATH 240</td>
<td>Matrices and Applications</td>
<td></td>
</tr>
<tr>
<td>or MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 431</td>
<td>Modern Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Axiomatic Geometry</td>
<td></td>
</tr>
<tr>
<td>or MATH 453</td>
<td>Transformations in Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 575</td>
<td>High School Mathematics from an Advanced Viewpoint</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following:

### Statistics (choose one of the following) 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 465</td>
<td>Introductory Mathematical Statistics for Social Sciences and Education</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 361 &amp; MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Total Credits:** 37-45

2. May only choose the course that was not taken previously.

#### Professional Education Requirements

**MACSTEP Sequence** - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURNRS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURNRS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>2</td>
</tr>
<tr>
<td>CURNRS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>CURNRS 629</td>
<td>Change and Change Strategies in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 541</td>
<td>Assessment in Science and Math I</td>
<td>1</td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURNRS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>1</td>
</tr>
<tr>
<td>CURNRS 516</td>
<td>Field Work in Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURNRS 532</td>
<td>Teaching of Mathematics: Secondary</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 542</td>
<td>Assessment in Science and Math II</td>
<td>1</td>
</tr>
</tbody>
</table>

**Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURNRS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURNRS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>1</td>
</tr>
<tr>
<td>CURNRS 516</td>
<td>Field Work in Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURNRS 532</td>
<td>Teaching of Mathematics: Secondary</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 542</td>
<td>Assessment in Science and Math II</td>
<td>1</td>
</tr>
</tbody>
</table>
Application to the Mathematics Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at http://uwm.edu/education/academics/mathematics/.

**Advance to Major**

**Program Admission Requirements**
Application to the Mathematics Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at http://uwm.edu/education/academics/mathematics/.

- A minimum cumulative GPA of 2.5.
- A minimum GPA of 2.75 in all your mathematics content area courses and a minimum 2.75 GPA in all your professional education courses.
- Satisfactory completion of a minimum 128 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Completion of edTPA (Teacher Performance Assessment) required for certification.

**Additional Requirements for Graduation**

- A minimum cumulative GPA of 2.5.
- A minimum GPA of 2.75 in all your mathematics content area courses and a minimum 2.75 GPA in all your professional education courses.
- Satisfactory completion of a minimum 128 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Completion of edTPA (Teacher Performance Assessment) required for certification.

**Student Teaching**

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at http://uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: Mathematics: Content Knowledge #5161;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences;
- Criminal Background Check submitted to the Office of Clinical Experiences

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu
Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/people/hochmuth-allison/).

Honors in the Department of Teaching and Learning
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on the minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on the minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Adolescence - Adolescence Level: Science
The Science Education program is available for students who plan to teach middle or high school science. Science Education students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching science subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Science licensure as their initial certification:
- Bilingual
- English as a Second Language
- World Languages

Requirements
General Education Requirements (GERs)
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Program Admission Requirements (p. 392)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 328</td>
<td>Introduction to Teaching Science in Middle and High School (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis (QL-B, GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 213</td>
<td>Introduction to the Philosophy of Science (GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 324</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 335</td>
<td>Philosophy of Biology</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 520</td>
<td>Philosophy of the Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 502</td>
<td>Development of Modern Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 20-25
Program may allow fulfillment of Act 31 with a 1-day workshop.

Content Area
The selection of at least one major and one minor (highly suggested) should be made in consultation with a faculty advisor prior to applying for admission to the School of Education. Contact your faculty advisor for the "MACSTEP Program Packet," which includes course lists and specific details regarding the majors and minors.

### Majors (select at least one)
- Biology
- Broad Field Science
- Chemistry
- Earth and Space Science
- Environmental Studies
- Life and Environmental Science
- Physical Science
- Physics

### Minors (selecting one is highly suggested)
- Biology
- Earth and Space Science
- Chemistry
- Physics

The Broad Field Science major consists of 54 credits in science, including:
- 14 credits in each of two of the following: biology, chemistry, earth, and physics
- 8 credits in each of the remaining science areas
- Electives to be selected in consultation with a faculty advisor

Professionals can earn a certification in another subject (biology, chemistry, physics, and earth and space science) if they have 15 credits in that subject area.

### Professional Education Requirements

**MACSTEP Sequence**: Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 518</td>
<td>Science Methods I: Middle/Secondary Methods and Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 629</td>
<td>Change and Change Strategies in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 541</td>
<td>Assessment in Science and Math I</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 516</td>
<td>Field Work in Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 519</td>
<td>Science Methods II: Middle/Secondary Methods and Fieldwork</td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 542</td>
<td>Assessment in Science and Math II</td>
<td>1</td>
</tr>
<tr>
<td>EXC EDUC 536</td>
<td>Inclusion for Secondary Science and Math Educators</td>
<td>1</td>
</tr>
<tr>
<td>EXC EDUC 537</td>
<td>Math and Science Methods for All Learners</td>
<td>1</td>
</tr>
</tbody>
</table>

**Spring**
- ED PSY 543 | Assessment in Science and Math III | 1       |
- EXC EDUC 538 | Teaching Math and Science to All Learners | 1       |

**Student Teaching (Spring)**
- CURRINS 427 | Student Teaching in Science | 10-12   |

Total Credits: 37-39

### Additional Requirements for Graduation
- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

### Advance to Major

**Program Admission Requirements**
Application to the Science Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: [http://uwm.edu/education/academics/science/](http://uwm.edu/education/academics/science/).

- **Pre-Professional Skills Test**: Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, MATH 105, MATH 175, or an equivalent with a grade of C or better.
- **Completion of COMMUN 103**, with a grade of C or better. Note: Completion of this course also fulfills part of the Humanities GER requirement.
- **Completion of CURRINS 328**, Introduction to teaching Science in Middle and High School, with a grade of C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all Science content courses.
- **A minimum of 58 credits (UWM and transfer credits)** at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
• Meeting with faculty advisor to review admission application. Faculty signature required on application.

Benchmarks

Student Teaching
Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (http://uwm.edu/education/academics/clinical-experiences/).

To be approved for placement, you must meet the following criteria:

• Be admitted to the School of Education;
• Completion of all required coursework;
• Cumulative GPA of a minimum 2.5;
• A minimum of 2.75 in all your science content area and professional education courses;
• Passing scores reflected on your transcript for the Praxis II exam: General Science: Content Knowledge #10435;
• Removal of all F or I (incompletes) grades;
• TB test results submitted to the Office of Clinical Experiences; and
• Criminal Background Check submitted to the Office of Clinical Experiences;

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

• Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.
• Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Adolescence - Adolescence Level: Social Studies

The Social Studies Education Program is available for candidates who plan to teach social studies to learners in middle through high school.

Social Studies Education Program candidates are exposed to relevant field experiences at area schools through an initial semester long middle level placement and a year-round high school student teaching placement. Candidates who satisfactorily complete the Social Studies Education Program requirements meet the Wisconsin teacher certification requirements for EAA Licensure (ages 10 to 21).
Undergraduate and/or Post-Baccalaureate candidates who satisfactorily complete the Social Studies Education Program will be granted a Wisconsin EAA license in one or more of the following social studies subject areas: Broad Field Social Studies, Economics, Geography, History, Political Science, Psychology, and Sociology.

Requirements

General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Program Admission Requirements (p. 394)

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 530</td>
<td>Urban Education: Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics (GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics (GER-SS)</td>
<td></td>
</tr>
</tbody>
</table>

Minority Group Relations (Act 31) 1

A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td></td>
</tr>
</tbody>
</table>

Non-Western History or Contemporary Culture 0-3

Both statutory requirements can be met by taking one class from the list under Minority Group Relations (Act 31).

Total Credits 18-21

1 Program may allow fulfillment of Act 31 with a 1-day workshop.

Content Area

Fields of study include economics, geography, history, psychology, political science, and sociology. See advisor for specific course options for chosen fields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Social Studies Field</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>18 credits must be in 300-level or higher courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Second Social Studies Field 2</td>
<td>12</td>
</tr>
</tbody>
</table>

Third Social Studies Field 2

Total Credits 60

2 12 credits of the total 24 in the second and third social studies fields must be 300-level or higher coursework.

Professional Education Requirements 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 313</td>
<td>Teaching Economics in the Social Studies Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 321</td>
<td>Introduction to the Teaching of Social Studies</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 516</td>
<td>Field Work in Middle School</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Fall

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 323</td>
<td>Teaching of Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 415</td>
<td>Preliminary Student Teaching: Middle, Junior, and Senior High School</td>
<td>6</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 320</td>
<td>Principles of Classroom Appraisal and Evaluation</td>
<td>2</td>
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</table>

Student Teaching (Spring) 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 423</td>
<td>Student Teaching in Social Studies</td>
<td>10-12</td>
</tr>
</tbody>
</table>

Total Credits 39-41

3 Recommended sequence
4 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 395) for details.

Additional Requirements for Graduation

- Minimum cumulative GPA of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Minimum cumulative GPA of 2.75.
- Satisfactory completion of a minimum 128 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Completion of edTPA (Teacher Performance Assessment) required for certification.

Advance to Major

Program Admissions Requirements

Application to the Social Studies program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: http://uwm.edu/education/academics/social-studies/.

- Pre-Professional Skills Test: Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores
must be within five years of admission term to academic program. Please see your academic advisor for additional information.

- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 105 or an equivalent with a grade of C or better.
- **Completion of** COMMUN 103, with a grade of C or better. Completion of this course fulfills 3 credits of the Humanities GER requirement.
- **Completion of** CURRINS 300 with a grade of C or better.
- A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.
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- A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
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### Benchmarks

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soeinfo@uwm.edu

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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Adolescence-Adolescence Level: English

The Early Adolescence through Adolescence (EA-A) Program in English Education is available for students who plan to teach English to students from ages 10-21. English Education candidates participate in hands-on, classroom based field and student teaching experiences in urban area middle and high schools. Candidates who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching English subject areas in grades 6-12.

Requirements

General Education Requirements (GERs)
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Program Admission Requirements (p. 398)

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 6

1 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class. Program may allow fulfillment of Act 31 with a 1-day workshop.

Content Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Choose one: ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers (GER-OWCB, HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 212</td>
<td>Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies (OWC-B, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing (GER-A)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature (GER-HU, highly recommended)</td>
<td></td>
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<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s (GER-HU)</td>
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<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present: (GER-HU)</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (GER-HU)</td>
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<tr>
<td>ENGLISH 221</td>
<td>English Writers to 1800 (GER-HU)</td>
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<tr>
<td>ENGLISH 222</td>
<td>English Writers, 1800 to the Present (GER-HU)</td>
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<tr>
<td>ENGLISH 223</td>
<td>American Writers to 1900 (GER-HU)</td>
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<tr>
<td>ENGLISH 224</td>
<td>American Writers: 1900 to the Present (GER-HU)</td>
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<tr>
<td>ENGLISH 269</td>
<td>Literary Forms and Genres:</td>
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<td>ENGLISH 274</td>
<td>Literature and the Other Arts:</td>
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<tr>
<td>ENGLISH 275</td>
<td>The Forms of Folk Literature:</td>
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<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
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<tr>
<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature: (GER-CD, GER-HU)</td>
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<tr>
<td>ENGLISH 278</td>
<td>Introduction to World Literatures Written in English: (GER-HU)</td>
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<tr>
<td>ENGLISH 279</td>
<td>Introduction to U.S. Latino/a Literature: (GER-CD, GER-HU)</td>
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</tr>
<tr>
<td>ENGLISH 280</td>
<td>Introduction to Asian-American Literature: (GER-CD, GER-HU)</td>
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<tr>
<td>ENGLISH 281</td>
<td>Introduction to African-American Literature: (GER-CD, GER-HU)</td>
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<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop (GER-OWCB)</td>
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<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
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Advanced Writing

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENGLISH 400</td>
<td>Introduction to English Linguistics</td>
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<tr>
<td>or LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 401</td>
<td>History of the English Language</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 403</td>
<td>Survey of Modern English Grammar</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>2</td>
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Advanced Literature

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGLISH 301</td>
<td>Survey of English Literature, Beginnings to 1500</td>
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</tr>
<tr>
<td>ENGLISH 302</td>
<td>Survey of English Literature, 1500-1660</td>
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<tr>
<td>ENGLISH 303</td>
<td>Survey of English Literature, 1660-1798</td>
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</tr>
<tr>
<td>ENGLISH 304</td>
<td>Survey of English Literature, 1798-1900</td>
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</tr>
<tr>
<td>ENGLISH 305</td>
<td>Survey of English Literature: 1900 to the Present</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 306</td>
<td>Survey of Irish Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
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Advanced Literature

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<tr>
<td>ENGLISH 301</td>
<td>Survey of English Literature, Beginnings to 1500</td>
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<tr>
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<td>Survey of English Literature, 1500-1660</td>
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<td>ENGLISH 303</td>
<td>Survey of English Literature, 1660-1798</td>
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<td>ENGLISH 304</td>
<td>Survey of English Literature, 1798-1900</td>
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<tr>
<td>ENGLISH 305</td>
<td>Survey of English Literature: 1900 to the Present</td>
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<tr>
<td>ENGLISH 306</td>
<td>Survey of Irish Literature</td>
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</tr>
<tr>
<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
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Survey I: Periodization/Historical, Genre, Focus (choose one of the following) 3
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGLISH 308</td>
<td>Survey of American Literature, 1865-1965</td>
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<td>ENGLISH 309</td>
<td>Survey of Contemporary American Literature</td>
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<td>ENGLISH 326</td>
<td>The Development of the Novel:</td>
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<td>ENGLISH 327</td>
<td>The Development of the Short Story</td>
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<td>ENGLISH 328</td>
<td>Forms of Experimental Literature:</td>
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<td>ENGLISH 329</td>
<td>Film and Literature</td>
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<td>ENGLISH 341</td>
<td>The Development of Drama:</td>
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<td>ENGLISH 361</td>
<td>The Development of Poetry:</td>
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<td>ENGLISH 451</td>
<td>Chaucer</td>
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<td>ENGLISH 452</td>
<td>Shakespeare</td>
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<td>ENGLISH 454</td>
<td>Milton</td>
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<td>ENGLISH 456</td>
<td>Writers in English Literature, 1500-1660:</td>
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<td>ENGLISH 457</td>
<td>Writers in English Literature, 1660-1798:</td>
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<td>ENGLISH 458</td>
<td>Writers in English Literature, 1798-1900:</td>
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<td>ENGLISH 459</td>
<td>Writers in English Literature, 1900 to the Present:</td>
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<td>Writers in American Literature, 1500-1900:</td>
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<td>Writers in American Literature, 1900 to the Present:</td>
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<td>ENGLISH 500</td>
<td>Studies in Medieval and Early Modern Literature:</td>
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<td>ENGLISH 501</td>
<td>Studies in Literature, 1500-1660:</td>
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<td>ENGLISH 504</td>
<td>Studies in Literature, 1660-1800:</td>
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<td>ENGLISH 505</td>
<td>Studies in Literature, 1800-1900:</td>
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<td>ENGLISH 507</td>
<td>Studies in Literature, 1900 to the Present:</td>
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<td>ENGLISH 530</td>
<td>Studies in Shakespeare:</td>
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<td>ENGLISH 621</td>
<td>Seminar in the Literature of England:</td>
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<td>ENGLISH 623</td>
<td>Seminar in American Literature:</td>
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<td>ENGLISH 624</td>
<td>Seminar in Modern Literature:</td>
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<td>ENGLISH 625</td>
<td>Seminar in Literary History:</td>
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<td>ENGLISH 685</td>
<td>Honors Seminar:</td>
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<td><strong>Survey II: Literature and Culture (choose one of the following)</strong></td>
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<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature: (GER-HU)</td>
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<td>ENGLISH 372</td>
<td>Survey of American Indian Literature (GER-CD, GER-HU)</td>
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<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature (GER-CD, GER-HU)</td>
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<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature (GER-CD)</td>
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<td>ENGLISH 375</td>
<td>Survey of Asian American Literature (GER-CD)</td>
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<td>ENGLISH 376</td>
<td>Survey of African-American Literature to 1930 (GER-CD)</td>
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<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present (GER-CD)</td>
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<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<td>ENGLISH 463</td>
<td>Writers in African-American Literature: (GER-CD)</td>
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<td>ENGLISH 465</td>
<td>Women Writers:</td>
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<tr>
<td>CURRINS 650</td>
<td>Reading Interests of Adolescents</td>
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<td><strong>Literary Critical Theory (choose one of the following)</strong></td>
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<td>ENGLISH 378</td>
<td>Survey of Current Literary and Cultural Theory</td>
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<td>ENGLISH 545</td>
<td>Studies in the History of Literary Criticism:</td>
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<td>ENGLISH 547</td>
<td>Studies in Theory and Criticism:</td>
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<td>ENGLISH 626</td>
<td>Seminar in Critical Theory:</td>
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<td><strong>Literature and Culture Capstone (choose one of the following)</strong></td>
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<td>ENGLISH 514</td>
<td>Literature in Context:</td>
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<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts:</td>
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<tr>
<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
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<td>ENGLISH 518</td>
<td>Studies in Irish Literature:</td>
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<tr>
<td>ENGLISH 520</td>
<td>Studies in American Indian Literature:</td>
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<tr>
<td>ENGLISH 521</td>
<td>Studies in Ethnic Minority Literature:</td>
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<td>ENGLISH 522</td>
<td>Studies in World Literature Written in English:</td>
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<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature:</td>
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<td>ENGLISH 524</td>
<td>Studies in Asian-American Literature:</td>
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<td>ENGLISH 627</td>
<td>Seminar in Literature and Culture:</td>
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<tr>
<td>ENGLISH 628</td>
<td>Seminar in Literature by Women:</td>
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<td>ENGLISH 629</td>
<td>Seminar in Literature and Sexuality:</td>
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<td>ENGLISH 630</td>
<td>Seminar in Literature and the Other Arts:</td>
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<tr>
<td>ENGLISH 631</td>
<td>Seminar in African-American Literature:</td>
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<tr>
<td>ENGLISH 632</td>
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2 Meets Reading Teacher Proficiency 3.
3 Meets Reading Teacher Proficiency 6.

**Professional Education Requirements**

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<tr>
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<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education Urban Education: Foundations</td>
<td><strong>3</strong></td>
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<tr>
<td>ED POL 530</td>
<td>or ED POL 530</td>
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<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>CURRINS 659</td>
<td>Teaching and Assessing Grammar to Enrich Writing</td>
<td><strong>2</strong></td>
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**After Admission to School of Education (2 courses)**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents (English-only spring section)</td>
<td><strong>1</strong></td>
</tr>
<tr>
<td>CURRINS 657</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools</td>
<td><strong>3</strong></td>
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**Block Taken in Fall of Final Academic Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 558</td>
<td>Teaching and Assessing English (prerequisite CURRINS 657)</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>CURRINS 516</td>
<td>Field Work in Middle School</td>
<td><strong>5</strong></td>
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</tbody>
</table>
To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education.
- Completion of all required coursework.
- Minimum 2.5 cumulative GPA.
- Minimum of 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English Language Art: Content Knowledge #5038.
- Removal of all F or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences.
- Criminal Background Check submitted to the Office of Clinical Experiences.
- Completion of CURRINS 316, CURRINS 415, CURRINS 510, CURRINS 650, CURRINS 657, CURRINS 658, and CURRINS 659 with a C+ or better.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (http://uw.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services

Enderis Hall, Room 209

(414) 229-4721

soeinfo@uw.edu

**Walk-In Hours**

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions,
please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Honors in the Department of Teaching and Learning
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Childhood
The Early Childhood Education (ECE) program is available for those interested in teaching young children from birth to age 8 (through third grade) in a variety of early care/education and school programs. Students are admitted to the major immediately in the first year or upon transfer to UWM, and it is possible to complete the program in four years. Students who satisfactorily complete the program requirements will be highly-qualified to teach in early childhood settings. Those who wish to acquire a State of Wisconsin ECE teaching license can complete the state-mandated assessments through the program. Additionally program students can elect to attain add-on certification in ECE and English as a Second Language (ESL) or Bilingual Education. All program students will be prepared to teach culturally and linguistically diverse children. The program provides real-world experiences in a cross-section of sites where future employment opportunities exist, including public and charter primary schools; Head Start; and preschools and other community-based educational settings.

Requirements
General Education Requirements (GERs)
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Program Core

<table>
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<tr>
<th>Code</th>
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<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
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<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers (GER-OWCB)</td>
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<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td>3</td>
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<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (GER-QLB)</td>
<td>3</td>
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<tr>
<td>Choose one:</td>
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<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
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<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
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<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
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<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
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<td>COMMUN 103</td>
<td>Public Speaking (GER-HU)</td>
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<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
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<td>Earth Science elective (GER-NS or GER-NS+: Aston, Atm Sci, Geog, or Geo Sci)</td>
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<tr>
<td>Physical Science elective (GER-NS or GER-NS+: Chem or Physics)</td>
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<td>Choose one:</td>
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<td>HIST 151</td>
<td>American History: 1607 to 1877 (GER-SS)</td>
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<td>HIST 152</td>
<td>American History: 1877 to the Present (GER-SS)</td>
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<td>POL SCI 104</td>
<td>Introduction to American Government and Politics (GER-SS)</td>
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<td>POL SCI 105</td>
<td>State Politics (GER-SS)</td>
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Prior to Semester 4

| CURRINS 140 | Field Experience with Families & Communities | 1       |
| CURRINS 312 | Models and Issues for Early Childhood Education | 3       |

Semester 4

| CURRINS 240 | Field Experience with Dual Language Learners | 2       |
| CURRINS 501 | Language Acquisition for Children of Diverse Backgrounds | 3       |

Semester 5

| CURRINS 302 | Curriculum Design in Early Childhood | 3       |
Select electives as needed to reach 120 credits (see an advisor for appropriate options)

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<tr>
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<td><strong>Option 2: Education Degree, Early Childhood Education plus Early Childhood Certification</strong></td>
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<tr>
<td>CURRINS 601</td>
<td>Early Childhood Seminar in Student Teaching</td>
<td>3</td>
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<tr>
<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
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<td><strong>Option 3: Education Degree in Early Childhood plus Early Childhood and English as a Second Language Certifications</strong></td>
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<tr>
<td>CURRINS 601</td>
<td>Early Childhood Seminar in Student Teaching</td>
<td>3</td>
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<tr>
<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
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<tr>
<td>CURRINS 443</td>
<td>Student Teaching in English as a Second Language: Minor</td>
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<tbody>
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<td></td>
<td><strong>Option 4: Education Degree in Early Childhood plus Early Childhood and Bilingual Certifications</strong></td>
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<tr>
<td>CURRINS 601</td>
<td>Early Childhood Seminar in Student Teaching</td>
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<tr>
<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
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<tr>
<td>CURRINS 442</td>
<td>Student Teaching in Bilingual Education</td>
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### Code | Title                                               | Credits |
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<tbody>
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<td><strong>Option 5: Education Degree in Early Childhood plus Early Childhood, English as a Second Language, and Bilingual Certifications</strong></td>
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<td>CURRINS 601</td>
<td>Early Childhood Seminar in Student Teaching</td>
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<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
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<td>CURRINS 442</td>
<td>Student Teaching in Bilingual Education</td>
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<td>Student Teaching in English as a Second Language: Minor</td>
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</table>

### Program Benchmarks (p. 400)

#### Additional Requirements for Graduation:
- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Minimum cumulative GPA of 2.75 on professional education courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM
- For certification majors only: Completion of edTPA (Teacher Performance Assessment)

### Benchmarks

Students must meet benchmarks at 30, 60, and 85 credits and prior to student teaching. Benchmarks are monitored through tracking systems.
and advising. A student will be restricted from moving forward in the program if the benchmarks are not completed.

30 Credit Benchmarks
Reviewed with your advisor the semester after completion of 30 credits:
- Mandatory meeting with your advisor
- Completion of English 102 and Math 175 with a C or better
- Minimum cumulative GPA of 2.25 on all UWM and transfer courses

Certification majors only:
- Passing scores on a pre-professional skills test (See your academic advisor for additional information.)

60 Credit Benchmarks
Reviewed with your advisor the semester after completion of 60 credits:
- Mandatory meeting with your advisor
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses

Certification majors only:
- Registered for the appropriate Praxis II exam
  - Elementary Education Content Knowledge Exam #5014
  - Teaching English to Speakers of Other Languages #5361

85 Credit Benchmarks
Reviewed with your advisor the semester after completion of 85 credits:
- Mandatory meeting with your advisor
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses

Student Teaching Benchmarks (certification majors only)
- Mandatory attendance at Pre-Student Teaching Orientation
- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Removal of all F or I (Incomplete) grades in courses
- C or better in professional education and CurrIns sequenced courses
- Successfully pass the appropriate Praxis II exam(s)
  - Elementary Education Content Knowledge Exam #5014
  - Teaching English to Speakers of Other Languages #5361
- Successfully pass the Wisconsin Foundations of Reading Test (WiFORT)

Graduation Benchmarks (must be met to be approved for graduation)
Reviewed during the student teaching semester
- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM

Certification majors only:
- Completion of edTPA (Teacher Performance Assessment)

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- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
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- Keep a record of your academic progress.
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- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

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Honors in the Department of Teaching and Learning
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.
**Honors in the School of Education**

**Dean's Honor List**
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

---

**Education, BS: Early Childhood-Adolescence: English as a Second Language**

The English as a Second Language (ESL) Program is available as a major or a minor. An ESL major is for students who plan to teach English to non-native speakers from birth to age 21, in PK through 12th grade. Students must select the Early Childhood through Adolescence ESL major for grades PK through 12th grade. The ESL minor will result in an additional certification at the same level as your initial license.

Students at this level of certification may also add the following licenses while pursuing or after obtaining their ESL licensure as their initial certification:

- World Languages

---

**Requirements**

**General Education Requirements (GERs)**
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

**Program Admission Requirements (p. 403)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minority Group Relations (Act 31) 3

A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses.

<table>
<thead>
<tr>
<th>ANTRO 213</th>
<th>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
</tr>
</tbody>
</table>

**Total Credits** 9

**Content Area**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 400 or LINGUIS 350</td>
<td>Introduction to English Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 420 or CURRINS 501</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 404 or LINGUIS 430</td>
<td>Language, Power, and Identity</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 444</td>
<td>Student Teaching in ESL- Early Childhood-Adolescence: (first placement)</td>
<td>6</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credits** 29-30

**Professional Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

| EXCEDUC 300 | The Exceptional Individual | 3       |
Program Admission Requirements

Application to the English as a Second Language program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: http://uwm.edu/education/academics/second-language/.

- **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 102, MATH 103, MATH 105, MATH 108, MATH 175, or an equivalent, with a grade of C or better. **Note**: MATH 103 or MATH 105 are recommended as they also meet core curriculum requirements.
- **Completion of CURRINS 300, Introduction to Teaching**, with a grade of C or better.
- **Completion of COMMUN 103** with a grade of C or better.
- A 2.75 minimum GPA in all English as a Second Language content courses completed prior to program admission.
- A 2.5 minimum GPA in all UWM and transfer courses at time of admission application.
- A minimum of 48 credits (UWM and transfer credits) at the time of admission application. It is not required to have all content area courses completed at the time of application.

To be approved, students must ALSO meet the following criteria:

- Be admitted to the School of Education.
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student’s faculty advisor.
- Have a minimum cumulative GPA of 2.75 on all undergraduate coursework, including transfer courses.
- Have a content GPA of 3.0 or better, OR Pass the Praxis Subject Assessment exam: Teaching English to Speakers of Other Languages: Content Knowledge #5362.
- Removal of all F and/or I (incomplete) grades in courses that count toward graduation or certification.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experiences.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

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- Come prepared with questions or topics for discussion.
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Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Childhood-Adolescence: World Language
The World Languages Program is available for students as a major or a minor. A World Language major is for students who plan to teach a world language to children from birth to age 21, in PK through 12th grade. The World Language minor will result in the additional certification at the same level as your initial license.

Students who satisfactorily complete the undergraduate program (as a major or minor) will be granted a license in one of the following languages: American Sign Language, Chinese, French, German, Hebrew, Italian, Latin, Russian, or Spanish.

Students seeking a World Language certification (major or minor) may also add the following licenses:

- Bilingual (only available for Spanish, World Language Licenses; a bilingual license will allow you to teach Spanish for Heritage Speakers only)
- English as a Second Language

Requirements

General Education Requirements (GERs)
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Program Admission Requirements (p. 407)

Program Core

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>ANTHRO 213</th>
<th>American Indian Peoples of Wisconsin (GER-CD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD)</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD)</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD)</td>
</tr>
</tbody>
</table>

Total Credits 9

Language Content Area
Complete total credits in chosen language, plus any prerequisites. Initial language courses (levels 1-4) may be satisfied through language proficiency examinations. See academic advisor for details.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>EXCEDUC 358</td>
<td>ASL/English Linguistics I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 363</td>
<td>ASL/English Linguistics II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 500</td>
<td>Fingerspelling &amp; Numbers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 520</td>
<td>ASL Literature</td>
<td>3</td>
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<th>Code</th>
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<tr>
<td></td>
<td><strong>Chinese</strong></td>
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</tr>
<tr>
<td>CHINESE 101</td>
<td>First Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 102</td>
<td>Second Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 201</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 202</td>
<td>Fourth Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
<td>3</td>
</tr>
<tr>
<td>or CHINESE 330</td>
<td>Chinese Language and Culture</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Select four of the following:</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td></td>
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<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
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<tr>
<td>ARTHIST 481</td>
<td>Topics in Chinese Art:</td>
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<tr>
<td>CHINESE 150</td>
<td>Contemporary Chinese Society and Culture</td>
<td></td>
</tr>
<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
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</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td></td>
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<tr>
<td>CHINESE 699</td>
<td>Advanced Independent Study</td>
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<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience:</td>
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</tr>
<tr>
<td>COMPLIT 362</td>
<td>Transnational Asian Cinemas:</td>
<td></td>
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<tr>
<td>ENGLISH 316</td>
<td>World Cinema:</td>
<td></td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td></td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td></td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td></td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td></td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 200</td>
<td>Aspects of Language:</td>
<td></td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td></td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
<td></td>
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<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td></td>
<td><strong>German</strong></td>
<td></td>
</tr>
<tr>
<td>GERMAN 101</td>
<td>First-Semester German</td>
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</tr>
<tr>
<td>GERMAN 102</td>
<td>Second-Semester German</td>
<td>4</td>
</tr>
<tr>
<td>GERMAN 203</td>
<td>Third-Semester German</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 204</td>
<td>German in Your Field and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 331</td>
<td>German Grammar in Practice</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332</td>
<td>Presentation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 333</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 334</td>
<td>Introduction to German Studies</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 371</td>
<td>German Phonetics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Complete 12 credits of 300-level or higher German Literature electives.</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Complete 3 credits of 600-level or higher German electives.</strong></td>
<td><strong>3</strong></td>
</tr>
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<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>44</strong></td>
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<table>
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<th>Code</th>
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<tbody>
<tr>
<td></td>
<td><strong>Hebrew</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Consult with a faculty or academic advisor regarding courses.</td>
<td><strong>30</strong></td>
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<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Italian</strong></td>
<td></td>
</tr>
<tr>
<td>ITALIAN 103</td>
<td>First-Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>ITALIAN 104</td>
<td>Second-Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>ITALIAN 203</td>
<td>Third-Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 204</td>
<td>Fourth-Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td></td>
</tr>
<tr>
<td>ITALIAN 321</td>
<td>Introduction to Italian Literature</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 322</td>
<td>Introduction to Italian Literature and Film</td>
<td></td>
</tr>
<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Complete 6 credits of 300-level or higher Italian Literature electives.</strong></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>
### Professional Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ED PSY 330</strong> Introduction to Learning and Development</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ED PSY 631</strong> Cognition: Learning, Problem Solving and Thinking</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ED PSY 640</strong> Human Development: Theory and Research</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- **EXCEDUC 300** The Exceptional Individual
- **EXCEDUC 531** Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language
- **EXCEDUC 600** Survey of Exceptional Education
- **CURRINS 542** History and Politics of Second Language Education
- **CURRINS 543** Developing Biliteracy
- **CURRINS 545** Reading in the Content Areas: Middle, Junior, and Senior High School
- **CURRINS 546** Language, Content, and Comprehensible Input
- **CURRINS 639** Critical Issues and Methods in World Language Education
- **CURRINS 655** Applied Educational Linguistics
- **CURRINS 637** World Language Methods and Materials and Student Teaching in World Language: Early Childhood-Adolescence
- **CURRINS 438** Student Teaching in World Language: Early Childhood-Adolescence
- **CURRINS 445** Seminar in Language Education

Total Credits: 40

---

1. A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.
2. Courses must be taken concurrently with student teaching. Students must complete coursework in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 407) for details.

### Additional Requirements for Graduation

- Program Portfolio - based on the 10 Wisconsin Teacher Standards.
- Minimum cumulative grade point average of 2.75 including any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Satisfactory completion of a minimum 120 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

### English as a Second Language Minor - option

World Language majors wishing to complete an English as a Second Language minor would also need these additional requirements:
To be approved, students must:

Prior to requesting/being assigned a student teaching placement, students must:

- Take the Department of Public Instruction Mandated Content Exam (language proficiency) - ASL students require a 3 on the ASLPI. Other languages require a minimum score of Intermediate-High on both the ACTFL OPI and the WPT.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of experience to your academic advisor prior to student teaching placement.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. (http://uwm.edu/education/academics/clinical-experiences/)
- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.75 on all undergraduate coursework, including transfer courses.
- Minimum score of Intermediate-High on the ACTFL OPI and WPT tests or a minimum score of 3 on the ASLPI for ASL students; a or a minimum GPA of 3.0 in languages content courses.
- Removal of all F and/or I (incomplete) grades in courses that count toward graduation or certification.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience

**Advance to Major**

**Program Admission Requirements**

Application to the World Languages program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at http://uwm.edu/education/academics/second-language/.

- **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 102, MATH 103, MATH 105, MATH 108, MATH 175, or an equivalent, with a grade of C or better.
  
  Note: MATH 103 or MATH 105 are recommended as they also meet core curriculum requirements.
- **Completion of CURREINS 300** with a grade of C or better.
- **Completion of COMMUN 103** with a grade of C or better.
- A 2.75 minimum GPA in all World Language content courses completed prior to program admission.
- A 2.5 minimum GPA in all UWM and transfer courses at time of admission application.
- A minimum of 48 credits (UWM and transfer credits) at the time of admission application. It is not required to have all content area courses completed at the time of application.
- The Wisconsin Department of Public Instruction requires that all applicants to a professional education preparation program pass a Criminal Background Check (CBC) prior to admission.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
seeinfo@uwm.edu

**Walk-In Hours**

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.
Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Honors in the Department of Teaching and Learning
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Elementary Education
The Elementary Education Program is designed for students seeking to teach at the middle childhood-early adolescence level (ages 6-12 or -13, grades 1-8). This program prepares students to work in urban settings and takes place in close partnership with local school districts. The UWM School of Education's urban mission is upheld in the Elementary Education program's commitment to preparing pre-service teachers to meet the needs of diverse populations. Students are admitted into the Elementary Education program upon admission to the University, and it is possible to complete the program in four years. Students who satisfactorily meet program requirements will be recommended for student teaching. Upon successful completion of all student teaching requirements, including several state-required assessments, students will be licensed to teach grades 1-8. After completion of the Elementary Education program, students may opt to pursue an add-on certification in Exceptional Education by completing streamlined course paths that include an additional student teaching requirement.

Students completing the Elementary Education program will receive a bachelor's degree in Education, and endorsement to be licensed to teach children in grades one through eight in the State of Wisconsin.

Special Education Certification
Students who successfully complete the Elementary Education program may seek dual licensure in special education, which requires a fifth year of school. Credits in the fifth year may be integrated into a master's program in Exceptional Education provided the student is admitted into the graduate program at UWM.

Requirements

<table>
<thead>
<tr>
<th>University General Education Requirements (GER)</th>
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<tbody>
<tr>
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</tbody>
</table>

Total Credits: 30-42

Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.
Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (GER-QLB)</td>
<td>3</td>
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Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
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<tr>
<td>THEATRE 260</td>
<td>Storytelling: (GER-A)</td>
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<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature (GER-HU)</td>
<td>3</td>
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<tr>
<td>Humanities Elective or English Elective for English minors only (GER-HU)</td>
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<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
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<tr>
<td>Physical Science elective (GER-NS+: Chem or Physics)</td>
<td>3-4</td>
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Choose one:

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<tr>
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<th>Credits</th>
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<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877 (GER-SS)</td>
<td>3</td>
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<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present (GER-SS)</td>
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Choose any GER-SS

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<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
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<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork</td>
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<tr>
<td>or CURRINS 333</td>
<td>Introduction to Teaching, Grades 1-8</td>
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<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
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</table>

Total Credits 42-43

2 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Professional Requirements

A C or better is required in all coursework. No courses may be taken for credit/no credit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 306</td>
<td>Elementary Education Clinical Experience, Grades K4-3</td>
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<tr>
<td>CURRINS 331</td>
<td>Teaching of Mathematics, Elementary School</td>
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</table>

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 536</td>
<td>Literacy 1: Assessing and Teaching Early Literacy</td>
<td>3</td>
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<tr>
<td>CURRINS 556</td>
<td>Professional Seminar 1: Foundations of Curriculum and Instruction</td>
<td>3</td>
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<tr>
<td>ED PSY 325</td>
<td>Practice of Classroom Assessment</td>
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Semester 2

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<tbody>
<tr>
<td>CURRINS 307</td>
<td>Elementary Education Clinical Experience, Grades 3-6</td>
<td>2</td>
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<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
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<tr>
<td>CURRINS 537</td>
<td>Literacy 2: Assessing and Teaching Literacy through Early Adolescence</td>
<td>3</td>
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<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
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<tr>
<td>CURRINS 557</td>
<td>Professional Seminar 2: Classroom Management: Theory, Practice and Context</td>
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Semester 3

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CURRINS 406</td>
<td>Advanced Elementary Education Clinical Experience</td>
<td>4</td>
</tr>
<tr>
<td>CURRINS 538</td>
<td>Literacy 3: Introduction to New Literacies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 558</td>
<td>Professional Seminar 4: Building Learning Communities</td>
<td>3</td>
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<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
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Any Semester Prior to Student Teaching

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 323</td>
<td>Teaching of Social Studies:</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS/EXCEDUC 375</td>
<td>Using Technology for Teaching and Learning</td>
<td>1</td>
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<tr>
<td>CURRINS 327</td>
<td>Teaching of Science in the Elementary School</td>
<td>3</td>
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<tr>
<td>MUS ED 260</td>
<td>Making Music Connections with Children</td>
<td>3</td>
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Semester 4

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS/EXCEDUC 376</td>
<td>Understanding and Developing the edTPA</td>
<td>1</td>
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<tr>
<td>CURRINS 407</td>
<td>Student Teaching in Elementary Education</td>
<td>9</td>
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<tr>
<td>CURRINS 471</td>
<td>Professional Seminar 5: The Effective Urban Educator</td>
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If completing ESL Minor, 3 additional Student Teaching credits required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 443</td>
<td>Student Teaching in English as a Second Language: Minor</td>
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</table>

Total Credits 64

3 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 408) for details.
### Program Benchmarks (p. 411)

#### Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>Select a minor from the following:</td>
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<tr>
<td></td>
<td>Social Studies</td>
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<tr>
<td></td>
<td>English/Language Arts</td>
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<tr>
<td></td>
<td>English as a Second Language (ESL)</td>
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<tr>
<td></td>
<td>Mathematics</td>
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<td>Natural Science</td>
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**Total Credits** 18

#### Social Studies

<table>
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<tr>
<td></td>
<td>Economics - choose one:</td>
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<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<tr>
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<td>Geography - choose one:</td>
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<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
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<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
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<tr>
<td></td>
<td>History - choose one:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
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<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
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<tr>
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<td>Native American History - choose one:</td>
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<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian</td>
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<tr>
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<td>Community Life of the Past</td>
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<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
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<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian</td>
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<td>Literature:</td>
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<tr>
<td>HIST 263</td>
<td>North American Indian History Since</td>
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<td>1887</td>
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<td>POL SCI 103</td>
<td>Introduction to Political Science</td>
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<td>POL SCI 104</td>
<td>Introduction to American Government</td>
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<td>and Politics</td>
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<td>POL SCI 105</td>
<td>State Politics</td>
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<td>U.S. Minorities - choose one:</td>
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<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
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<td>URB STD 150</td>
<td>Multicultural America</td>
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<tr>
<td>URB STD 250</td>
<td>Exploring the Urban Environment</td>
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<td>URBPLAN 350</td>
<td>Social Justice, Urban Planning and the</td>
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<td>New Multicultural America</td>
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<tr>
<td>WGS 150</td>
<td>Multicultural America</td>
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**Total Credits** 18

**This is a highly recommended course.**

#### English/Language Arts

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and</td>
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<tr>
<td></td>
<td>Young Adult Literature</td>
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<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
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<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
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<tr>
<td></td>
<td>Multicultural - choose one:</td>
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<tr>
<td>ENGLISH 150</td>
<td>Multicultural America</td>
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</table>

**Total Credits** 18

#### Mathematics

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<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for</td>
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<tr>
<td></td>
<td>Elementary Teachers I</td>
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<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for</td>
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<td></td>
<td>Elementary Teachers II</td>
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<tr>
<td>MATH 275</td>
<td>Problem Solving/Critical Thinking for</td>
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<td>Elementary Education Majors</td>
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**Literature - choose one:**

<table>
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<tbody>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>to the Present</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion</td>
<td></td>
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<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 309</td>
<td>Survey of Contemporary American</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Literature</td>
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<tr>
<td>ENGLISH 312</td>
<td>Topics in Film Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 325</td>
<td>The Art of Fiction</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 327</td>
<td>The Development of the Short Story</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 329</td>
<td>Film and Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
<td></td>
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<tr>
<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature</td>
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</tr>
<tr>
<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 375</td>
<td>Survey of Asian American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 376</td>
<td>Survey of African-American Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>to 1930</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 377</td>
<td>Survey of African-American Literature,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1930 to the Present</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 378</td>
<td>Survey of Current Literary and Cultural</td>
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<tr>
<td></td>
<td>Theory</td>
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<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English</td>
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</tr>
<tr>
<td>ENGLISH 383</td>
<td>Cinema and Genre</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Representing the Holocaust in Words</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and Images</td>
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</tr>
</tbody>
</table>

**Total Credits** 18

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**English as a Second Language**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 443</td>
<td>Student Teaching in English as</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>a Second Language: Minor</td>
<td></td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESL</td>
<td></td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Comprehensible Input</td>
<td></td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 18

---

**ENGLISH 192**

First-Year Seminar: (Multicultural Milwaukee)

---

**This is a highly recommended course.**
Additional Requirements for Graduation and Certification

- Minimum cumulative GPA of 2.75 in all UWM and transfer courses;
- Minimum cumulative GPA of 2.75 in professional education courses;
- Passing scores on the Praxis subject assessment or a content knowledge GPA of 3.0 posted on transcript;
- Satisfactory completion of a minimum 120 credits;
- Completion of the last year of coursework (30 credits) in residence at UWM; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

**Benchmarks**

**Gateway Check at 40 Credits Completed**
- Mandatory meeting with advisor in the semester following 40-credit semester;
- Minimum cumulative GPA of 2.5 in required program courses (all courses listed on the program sheet);
- Completion of dispositions and field evaluation from CURRINS 333 or CURRINS 300; and
- Completion of MATH 175 and ENGLISH 102 (or score of 4 or higher on English placement test).

**Gateway Check Prior to Approval to Student Teach**
- Minimum cumulative GPA of 2.75 in required courses (all courses listed on program sheet);
- Removal of all F or I (incomplete) grades in courses;
- C or better in required program courses (all courses in PS1 - PS3);
- Passing scores on the Wisconsin Foundations of Reading Test (after semester 2);
- Completion of practice Teacher Performance Assessment (edTPA);
- Passing scores on the Praxis subject assessment (take during semester 2) or a content knowledge GPA of 3.0 posted on transcript; and
- Completion of disposition and field evaluation in CURRINS 406.

A mandatory meeting with your academic advisor will be required if you have not met the above gateway checks.

Students pursuing the ESL minor are required to complete additional testing requirements. Please see your academic advisor for details.

For additional opportunities, see the Bilingual Supplemental Certification Program (p. 377).

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/);
- Come prepared with questions or topics for discussion;
- Make a list of courses you think you should take;
- Investigate opportunities to prepare for the job you want;
- Keep a record of your academic progress;
- Understand you are ultimately responsible for creating your educational, life, and career plans;
- Maintain honest and open communication with your advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 277</td>
<td>Geometry for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205 or MATH 276</td>
<td>Introductory Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH/MTHSTAT 278 or MTHSTAT 215</td>
<td>Discrete Probability and Statistics for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Natural Science**

Choose from the following courses to total 18 credits in the Science Minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Physical Science - choose one:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 107 &amp; PHYSICS 108</td>
<td>Physics in Everyday Life and Laboratory for Physics in Everyday Life</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYSICS 185</td>
<td>Basic Physics for Teachers</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 106</td>
<td>Chemistry in the World Around Us--Chemistry for the Non-Science Major</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 185</td>
<td>Basic Chemistry for Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

**Earth Science - choose one:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth (Do not take if you have taken GEO SCI 185.)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 185</td>
<td>Introductory Earth Science for Teachers 4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Biology - choose one:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 102</td>
<td>Elements of Biology (Do not take if you have taken BIO SCI 185.)</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Science Electives - choose one:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 103 &amp; ASTRON 104</td>
<td>Survey of Astronomy and Astronomy Laboratory</td>
<td>3-6</td>
</tr>
<tr>
<td>ASTRON 185</td>
<td>Astronomy for Pre-Education Majors 4</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 100</td>
<td>Survey of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 100</td>
<td>Survey of Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 103</td>
<td>Topics in Modern Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 104</td>
<td>Plants in Today's World</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 105</td>
<td>Earth, Air, Fire and Water</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 106</td>
<td>The Earth Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15-20

4 Highly recommended course.
Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Honors in the Department of Teaching and Learning
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Inclusion and Accessibility Studies

The Inclusion and Accessibility program is designed for those interested in working with students and adults with disabilities in a variety of settings. The focus is on understanding disability and disability policy broadly, along with 9 credits in 3 of the following areas: Autism Spectrum Disorders, Deaf History and Culture, Transition to Post-Secondary Environments, and an International Focus in Disability. This major is for individuals who are interested in pursuing a career in non-profit, for-profit, governmental agencies, and non-governmental organizations (NGOs) that provide services to children and adults with disabilities (Transition Specialist, Job Coach, Line Therapist, Residential Service Provider, international aid agency, etc.).

Requirements

General Education Requirements (GERs)
UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Admission to Program (p. 413)

Program Requirements
Students must complete the Core Courses and any combination of three 9-credit strands.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 503</td>
<td>Job Development and On the Job Support for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 505</td>
<td>Transition Assessment for Individuals with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 507</td>
<td>Linking Academics and Self-Determination to Transition Planning</td>
<td>3</td>
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Autism Spectrum Disorders Strand

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 560</td>
<td>Foundations of Autism Spectrum Disorders (GER-OWCB)</td>
<td>3</td>
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<tr>
<td>EXCEDUC 561</td>
<td>Methods for Working with Individuals with Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 585</td>
<td>Field Experience in Autism Spectrum Disorders</td>
<td>3</td>
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</tbody>
</table>

EXCEDUC 593
Technology Applications for Diverse Learners

EXCEDUC 608
Multicultural Learning and Teaching in Special Education

EXCEDUC 612
Collaborative Strategies

EXCEDUC 679
Critical Issues in Transition Planning for Students with Disabilities (This course required for this strand)
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

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Graduate Advising
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Honors in the School of Education
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GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

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Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

English as a Second Language, Minor
A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers. Students wishing to pursue a minor in ESL must be in the process of obtaining, or already have, a certification to teach at the Early Childhood, Early Childhood Through Adolescence, Middle Childhood Through Early Adolescence, or Early Adolescence Through Adolescence level.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
</tbody>
</table>
To be approved, students must ALSO meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to
take a course concurrently with student teaching requires approval by
the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate
coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional
education courses.
- Passing scores reflected on your transcript for the Praxis II exam:
  English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may
take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical
Experiences.

Undergraduate Advising

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promote educational, career, and professional development. We value
a student-centered, holistic, and ethical approach to advising based
on strong partnerships with students, faculty and staff, and the larger
campus community. We are committed to creating a respectful and
supportive environment. We encourage students to be self-reliant through
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enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

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- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your
educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of
  the UW-Milwaukee community.

Scheduling an Appointment

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Enderis Hall, Room 209
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soeinfo@uwm.edu

Walk-In Hours

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contact Graduate Program Admissions Specialist Allison Hochmuth
(https://uwm.edu/education/people/hochmuth-allison/).

Exceptional Education, BS: Early Adolescence - Adolescence

The Early Adolescence-Adolescence (EAA) Special Education program
leads to a Bachelor of Science in Exceptional Education. Upon
completion of the program and other license requirements, students will
be eligible to apply for a Cross-Categorical Special Education Teaching
License from the Wisconsin Department of Public Instruction for ages
10-21 (grades 6 through 12). If you already hold a Bachelor's Degree,
you can earn EAA Special Education Teacher Certification as a Post-
Baccalaureate student.

Our faculty are recognized leaders in the field of Special Education with
expertise in urban teaching, inclusive education, language and literacy
and transition. Our program will prepare you to become a powerful,
effective educator in a high-demand area.
Requirements

General Education Requirements (GERs)
WU-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Admission to Program (p. 416)

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly recommended—choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 240</td>
<td>Rhetoric, Writing, and Culture: (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 560</td>
<td>Foundations of Autism Spectrum Disorders (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>Highly recommended—choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II (GER-QLA)</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics (GER-QLA)</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra (GER-QLA)</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II (GER-QLA)</td>
<td></td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td></td>
</tr>
<tr>
<td>Highly recommended:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (OWC-QLB)</td>
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<tr>
<td>COMSDIS 210</td>
<td>Survey of Communication Disorders (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>Literature elective (GER-HU)</td>
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<td></td>
</tr>
<tr>
<td>Biological Sciences elective (GER-NS or NS+)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877 (GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present (GER-SS)</td>
<td></td>
</tr>
<tr>
<td>POL SCI 104</td>
<td>Introduction to American Government and Politics (GER-SS)</td>
<td></td>
</tr>
<tr>
<td>POL SCI 105</td>
<td>State Politics (GER-SS)</td>
<td></td>
</tr>
</tbody>
</table>

CURRINS 300 Introduction to Teaching: Colloquium and Fieldwork 3
EXCEDUC 300 The Exceptional Individual 3
or EXCEDUC 600 Survey of Exceptional Education 3
or EXCEDUC 605 Child, Learner, Disabilities 3
ED POL 375 Cultural Foundations of Education 3
or ED POL 530 Urban Education: Foundations 3

Total Credits: 30-31

1 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Professional Requirements

Students may enter the professional courses only after formal admission to the School of Education. The professional program consists of four semesters, including fieldwork/student teaching. Students must have a minimum grade of C or better in all professional coursework.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 - Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 595</td>
<td>Technology Applications for Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 643</td>
<td>Balanced Literacy Instruction in the Elementary School</td>
<td>3</td>
</tr>
</tbody>
</table>
| Field Requirement                               | 1.5 days per week or 135 hours
| Year 1 - Spring                                 |         |
| CURRINS 332 | Teaching of Mathematics: Middle School                 | 3       |
| EXCEDUC 636 | Curriculum Accommodations                              | 3       |
| EXCEDUC 662 | Collaborative Strategies                               | 3       |
| EXCEDUC 680 | Literacy I                                             | 3       |
| EXCEDUC 586 | Teaching Experience I                                  | 1       |
| EXCEDUC 486 | Linking Seminar: Developing Reflective Practice       | 2       |
| Field Requirement                               | 2 days per week or 190 hours
| Reading Test                                    |         |
| Year 2 - Fall                                   |         |
| EXCEDUC 532 | Assessment and Monitoring                             | 3       |
| EXCEDUC 671 | Behavior Support & Intervention for Mid/High Students with Disabilities | 3       |
| EXCEDUC 679 | Critical Issues in Transition Planning for Students with Disabilities | 3       |
| EXCEDUC 587 | Teaching Experience II                                | 3       |
| Field Requirement                               | Half-days (M-F)
| Year 2 - Spring                                 |         |
| EXCEDUC 488 | Linking Seminar: Professional Development             | 1       |
| CURRINS 543 | Developing Biliteracy                                 | 3       |
| EXCEDUC 588 | Teaching Experience III                               | 9       |
Field Requirement: Twenty weeks full-time (M-F)

Total Credits: 55

2 It is strongly recommended that students take the reading test required for initial certification at the end of the first year of the professional sequence.

**Exceptional Education Degree, EAA Submajor Completion Requirements**

- Completion of all admission requirements, granted admission to the EAA program, and completion of EAA professional course sequence;
- Completion of EAA program requirements that also fulfill university GER requirements, including coursework to meet the Act 31 requirement;
- Completion of a minimum of 18 credits of approved content coursework;
- Completion of university GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum of 120 degree credits; and
- Maintain a cumulative GPA of 2.75.

**Department of Public Instruction (DPI) Licensure Requirements**

- Minimum cumulative GPA of 2.75;
- Minimum cumulative GPA of 2.75 in professional coursework;
- Completion of DPI Content Knowledge Requirement by earning a 3.0 cumulative GPA in required content coursework, by demonstrating proficiency in a content portfolio, or by passing the PRAXIS II (Middle School: Content Knowledge Test--0146/5146); and
- Passing scores on state-mandated tests (Wisconsin Foundations of Reading Test, edTPA).

**Post-Baccalaureate Program**

(Under revision; please see an advisor for information.)

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 586</td>
<td>Teaching Experience I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 680</td>
<td>Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 671</td>
<td>Behavior Support &amp; Intervention for Mid/High Students with Disabilities</td>
<td>3</td>
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<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
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</tr>
<tr>
<td>EXCEDUC 636</td>
<td>Curriculum Accommodations</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 486</td>
<td>Linking Seminar: Developing Reflective Practice</td>
<td>1</td>
</tr>
</tbody>
</table>

**Advance to Major**

**Program Admission Requirements**

- Achieve a placement level 4 or higher on the English placement test, or complete ENGLISH 102 or an equivalent with a C or better (OWC-A);
- Score of 30 or higher on the Math placement test or MATH 102, MATH 103, MATH 105, MATH 108, MATH 175, or equivalent with a C or better (QL-A);
- Completion of CURRINS 300 (or equivalent), with a C or better;
- Completion of EXCEDUC 300, EXCEDUC 600, or EXCEDUC 605 (or equivalent), with a C or better;
- Completion of ED POL 375 or ED POL 530 (or equivalent), with a C or better;
- Completion of an approved advanced course (at least three credits) with significant written or oral communication component (OWC-B), with a C or better (recommendations: EXCEDUC 560, ENGLISH 215, ENGLISH 240, ENGLISH 201, ENGLISH 202, or equivalent);
- Completion of an approved advanced course (at least three credits) making use of quantitative tools (QL-B), with a C or better (recommendations: MATH 176 or equivalent);
- Completion of a minimum of 45 credits at the time of application;
- Maintain a cumulative GPA of 2.5;
Completion of a program application; and
Interview

**Benchmarks**

**Content Knowledge Coursework**
A 3.0 cumulative GPA in 6 of the content-focused courses below meets the DPI content knowledge proficiency requirement.

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>EXEDUC 680</td>
<td>Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>2-3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOF 110</td>
<td>The World: Peoples and Regions</td>
<td>3</td>
</tr>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLSCI 105</td>
<td>State Politics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOLO 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCIENCE - choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATM SCI 100</td>
<td>Survey of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 109</td>
<td>Thunderstorms, Tornadoes and Hurricanes</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 100</td>
<td>Survey of Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 102</td>
<td>Elements of Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 103</td>
<td>Topics in Modern Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 104</td>
<td>Plants in Today’s World</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 206</td>
<td>Biology of Women</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 106</td>
<td>Chemistry in the World Around Us—Chemistry for the Non-Science Major</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 185</td>
<td>Basic Chemistry for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 105</td>
<td>Earth, Air, Fire and Water</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 106</td>
<td>The Earth Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 185</td>
<td>Introductory Earth Science for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 107</td>
<td>Physics in Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 185</td>
<td>Basic Physics for Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

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soeinfo@uwm.edu

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### Honors in the School of Education

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Exceptional Education, BS: Early Childhood

The Early Childhood Special Education major leads to a Bachelor of Science in Exceptional Education. Upon completion, students will be eligible to apply for a Cross-Categorical Special Education Teaching License from the Wisconsin Department of Public Instruction for ages birth to eight, grades birth-3rd. Special Education teachers who specialize in early childhood are currently in high demand, according to the U.S. Bureau of Labor Statistics.

### Requirements

#### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

<table>
<thead>
<tr>
<th>Program Core Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (GER-QLB)</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Professional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 140</td>
<td>Field Experience with Families &amp; Communities</td>
<td>1</td>
</tr>
<tr>
<td>Currins 312</td>
<td>Models and Issues for Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>Currins 240</td>
<td>Field Experience with Dual Language Learners</td>
<td>2</td>
</tr>
<tr>
<td>Currins 340</td>
<td>Field Experience in Preschool and Kindergarten Classrooms</td>
<td>2</td>
</tr>
<tr>
<td>or Currins 440</td>
<td>Field Experience in the Primary Grades</td>
<td></td>
</tr>
<tr>
<td>Currins 502</td>
<td>Emergent Literacy and Biliteracy in the Early Childhood Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EXCeduc 569</td>
<td>Curriculum and Methods for Special Education: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>EXCeduc 648</td>
<td>Early Childhood Special Education Field Experience: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>Currins 330</td>
<td>Teaching of Mathematics: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EXCeduc 570</td>
<td>Curriculum and Methods for Special Education: Primary</td>
<td>3</td>
</tr>
<tr>
<td>EXCeduc 649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
<td>3</td>
</tr>
<tr>
<td>Ed Psy/Exceduc 613</td>
<td>Infant and Early Childhood Assessment</td>
<td>3</td>
</tr>
<tr>
<td>Currins 504</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td>3</td>
</tr>
</tbody>
</table>
Semester 7
EXCEDUC 568 Curriculum and Methods for Special Education: Birth to Three 3
EXCEDUC 647 Early Childhood Special Education Field Experience: 0 to 3 Yrs 3
EXCEDUC 682 Language and Literacy in Early Childhood Special Education 3

Semester 8
EXCEDUC 481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs 12

Highly recommended:
CURRINS/EXCEDUC 376 Understanding and Developing the edTPA

Other Required Professional Courses
MUS ED 260 Making Music Connections with Children 3
ED PSY 330 Introduction to Learning and Development 3
EXCEDUC 630 Survey of EC Intervention: Young Children with Special Needs, Families 3
CURRINS/EXCEDUC 612 Collaborations for Teachers with Families, Schools, and Communities 3

Electives
Select electives to ensure the minimum 120 credits required for graduation

Total Credits 71

Exceptional Education, Early Childhood Submajor Completion Requirements
• Completion of program requirements;
• Completion of university GER;
• Completion of a minimum of 120 credits;
• Completion of the last year of coursework (30 credits) in residence at UWM;
• Minimum cumulative GPA of 2.75 in UWM and transfer credits; and
• Minimum cumulative GPA of 2.75 in professional coursework

See your advisor for additional requirements for certification.

Post-baccalaureate Program (Under revision; please see an advisor for information.)

Code Title Credits
Year 1 - Summer
CURREINS 302 Curriculum Design in Early Childhood 3
EXCEDUC 630 Survey of EC Intervention: Young Children with Special Needs, Families 3

Year 1 - Fall
EXCEDUC 569 Curriculum and Methods for Special Education: Preschool 3
EXCEDUC 648 Early Childhood Special Education Field Experience: Preschool 3
CURRINS 502 Emergent Literacy and Biliteracy in the Early Childhood Classroom 3

Year 1 - Spring
CURRINS 504 Methods for Biliteracy and Language Arts in Primary Grades 3
EXCEDUC 570 Curriculum and Methods for Special Education: Primary 3
EXCEDUC 649 Early Childhood Special Education Field Experience: Primary 3

Year 2 - Summer
EXCEDUC 568 Curriculum and Methods for Special Education: Birth to Three 3
EXCEDUC 647 Early Childhood Special Education Field Experience: 0 to 3 Yrs 3

Year 2 - Fall
EXCEDUC 682 Language and Literacy in Early Childhood Special Education 3
CURRINS 330 Teaching of Mathematics: Early Childhood 3
ED PSY 330 Introduction to Learning and Development 3
or ED PSY 640 Human Development: Theory and Research 3

Year 2 - Spring
EXCEDUC 652 Developmental Evaluation of Young Children with Disabilities 3
EXCEDUC 651 Working With Families in Urban Communities 3

Other Teaching Experience Requirements
EXCEDUC 481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs 3
or EXCEDUC 776 Fieldwork with Students Having Early Childhood-Exceptional Education Needs
CURRINS 400 Field Work in Curriculum and Instruction: 1-6

Total Credits 49-54

Advance to Major
Admission to Program
See academic advisor.

Benchmarks
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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

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Exceptional Education, BS: K4-12 Special Education

Special education certification in the state of Wisconsin has undergone changes in the grade levels associated with specific licenses. The UWM Special Education program is adapting curriculum to prepare students to teach in K4-12 settings, including extensive fieldwork. This program prepares students to work in urban settings and takes place in close partnership with local school districts.

The UWM School of Education’s urban mission is upheld in the special education program’s commitment to preparing pre-service teachers to meet the needs of diverse populations. Students are admitted into the program upon admission to the University and completion of pre-professional coursework. It is possible to complete the program in four years. This is a field-based program involving gradual and extensive work in urban schools. Upon successful completion of all student teaching requirements, including state required assessments, students will be licensed to teach in special education.

Requirements

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER Competency Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part A</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part B</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complete a GER-OWCB approved advanced course with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part A</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part B</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complete a GER-QLB approved advanced course with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>0-6</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one approved GER-A designated course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select two approved GER-HU designated courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select two approved GER-SS designated courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one approved GER-NS+ designated course, which includes a lab component</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

---

Bachelor of Science in Exceptional Education, K4-12 Special Education

Humanities

- Cultural Diversity
  - English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better
- Select one approved GER-A designated course
- Select two approved GER-HU designated courses
- Select two approved GER-SS designated courses
- Select one approved GER-NS or GER-NS+ designated course
- Select one approved GER-NS+ designated course, which includes a lab component

Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better

Arts

- Select one approved GER-A designated course
- Select two approved GER-HU designated courses
- Select two approved GER-SS designated courses
- Select one approved GER-NS or GER-NS+ designated course
- Select one approved GER-NS+ designated course, which includes a lab component

Social Sciences

- Select one approved GER-A designated course
- Select two approved GER-HU designated courses
- Select two approved GER-SS designated courses
- Select one approved GER-NS or GER-NS+ designated course
- Select one approved GER-NS+ designated course, which includes a lab component

Natural Sciences

- Select one approved GER-A designated course
- Select two approved GER-HU designated courses
- Select two approved GER-SS designated courses
- Select one approved GER-NS or GER-NS+ designated course
- Select one approved GER-NS+ designated course, which includes a lab component

Foreign Language

- Complete one of the following:
  - 2 consecutive semesters of college instruction in a single foreign language with passing grades
  - 2 consecutive years of high school instruction in a single foreign language with passing grades
  - Demonstrate language proficiency on approved exam

Quantitative Literacy

- Complete a GER-QLB approved advanced course with a grade of C or better
- Complete a GER-OWCB approved advanced course with a grade of C or better
- Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better

Oral and Written Communication

- Oral and Written Communication, Part A
- Oral and Written Communication, Part B

GER Competency Requirements

- Oral and Written Communication, Part A
- Oral and Written Communication, Part B

National Science

- Cultural Diversity
- Select one approved GER-A designated course
- Select two approved GER-HU designated courses
- Select two approved GER-SS designated courses
- Select one approved GER-NS or GER-NS+ designated course
- Select one approved GER-NS+ designated course, which includes a lab component

GER Distribution Requirements

- Arts
- Humanities
- Social Sciences
- Natural Sciences
- Cultural Diversity

GPA Requirements

- 3.500 or above

Other Requirements

- University General Education Requirements (GER)
- GER Distribution Requirements

Campus Requirements

- University General Education Requirements (GER)
- GER Distribution Requirements

Degree Options

- Bachelor of Science in Exceptional Education, K4-12 Special Education
- Bachelor of Arts in Exceptional Education, K4-12 Special Education

Program Highlights

- The UWM School of Education’s urban mission is upheld in the special education program’s commitment to preparing pre-service teachers to meet the needs of diverse populations.
- Students are admitted into the program upon admission to the University and completion of pre-professional coursework.
- It is possible to complete the program in four years.
- This is a field-based program involving gradual and extensive work in urban schools.
- Upon successful completion of all student teaching requirements, including state required assessments, students will be licensed to teach in special education.

Transfer Student Not Yet Enrolled at UWM?

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Scheduling an Appointment

Office of Student Services
Endersis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Honors in the School of Education

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Select one approved GER-CD designated course

Total Credits: 30-42

1. Program-specific recommendations and requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (i.e., literature, biology, political science, etc.) to be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.

Admission to Program (p. 422)

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (OWC-QLA)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (OWC-QLB)</td>
<td>3</td>
</tr>
<tr>
<td>Choose one: 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>Currins 233</td>
<td>Introduction to Children’s and Young Adult Literature (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
<td></td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 224</td>
<td>Race and Ethnicity in the United States (GER-SS, CD)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork</td>
<td></td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td></td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 605 or EXCEDUC 300</td>
<td>Child, Learner, Disabilities or The Exceptional Individual</td>
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</table>

Highly recommended (fulfills GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education (Preferred course; GER-A, CD)</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 210</td>
<td>Survey of Communication Disorders (Preferred course; GER-SS)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers (Preferred course; GER-UWCB, HU)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 33

2. Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Professional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 306</td>
<td>Elementary Education Clinical Experience, Grades K4-3</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 536</td>
<td>Literacy 1: Assessing and Teaching Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 561</td>
<td>Mathematics Learners in Special Education I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 586</td>
<td>Teaching Experience I</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 595</td>
<td>Technology Applications for Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Year 1 - Fall

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 562</td>
<td>Mathematics Learners in Special Education II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 486</td>
<td>Linking Seminar: Developing Reflective Practice</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 586</td>
<td>Teaching Experience I</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 636</td>
<td>Curriculum Accommodations</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 681</td>
<td>Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Year 1 - Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 601</td>
<td>Behavioral Supports</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 679</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

Year 2 - Fall

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 488</td>
<td>Linking Seminar: Professional Development</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>9</td>
</tr>
<tr>
<td>EXCEDUC 574</td>
<td>Curriculum Accommodations II: Primary/Middle</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 56

Content Area (p. 422)

Exceptional Education Degree, K4-12 Special Education Submajor

Completion Requirements

• Completion of University GER;
• At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
• Completion of the ePortfolio; and
• Completion of a minimum 120 degree credits.

Certification Requirements

• Demonstration of content knowledge proficiency through one of the following:
  • Achieve a cumulative grade point average of 3.0 or above in prescribed content courses;
  • A passing score on the PRAXIS Subject Assessment #5146; or
  • A Content Knowledge Portfolio.
• Passing score on the Wisconsin Foundations of Reading test;
• Passing score on the edTPA;
• Completion of ACT 31 requirement;
• Minimum cumulative GPA of 2.75 in all UWM and transfer courses; and
• Minimum cumulative GPA of 2.75 and a C or better in all professional courses.

Post Baccalaureate
Students in the Post Baccalaureate program generally follow the same professional sequence as undergraduates, with a few modifications. Students should consult with their advisor.

Advance to Major
Program Admission Requirements
• At least 45 credits of Pre-Professional Coursework completed with a minimum cumulative GPA of 2.5;
• Minimum cumulative grade point average of 2.5 and a C or better in all required courses;
• Grade of C or better in CURRINS 300 and a positive field evaluation or equivalent;
• Grade of C or better in MATH 175 and ENGLISH 102 (or placement of 4 or higher on English placement test); and
• Successful application and interview.

Benchmarks
Student Teaching
Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwu.edu/education/academics/clinical-experiences/ (http://uwu.edu/education/academics/clinical-experiences/).

Content Knowledge Coursework
A 3.0 cumulative GPA in 6 of the content-focused courses below meets the DPI content knowledge proficiency requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 681</td>
<td>Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>

Or course with equivalent content

Math - choose two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
<tr>
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<td>Mathematical Explorations for Elementary Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 561</td>
<td>Mathematics Learners in Special Education I</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 562</td>
<td>Mathematics Learners in Special Education II</td>
<td>3</td>
</tr>
</tbody>
</table>

Or course with equivalent content

Social Studies - choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 224</td>
<td>Race and Ethnicity in the United States</td>
<td>3</td>
</tr>
<tr>
<td>GER-SS</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Or course with equivalent content

Science - choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Or course with equivalent content

Undergraduate Advising
Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting
• Review your Advisement Report in PAWS (http://uwu.edu/registrar/academic-unit-services/paws-academic-advisement/).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.
• Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwu.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

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Graduate Advising
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Accelerated Program Option
This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).

Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Exceptional Education, MS
The Department of Teaching and Learning offers two options for a program of study at the master's level: a general option or a certification option. Students choosing the General Option enroll in 12 credits of core requirements and 18 credits that reflect a focus area of study. Students following the Certification Option enroll in 12 credits of core requirements and apply 18 credits of their certification credits, taken at the graduate level, to the degree. This program is created in consultation with a faculty advisor. Students choosing the Certification Option must be accepted into one of the Department of Teaching and Learning's Post-Baccalaureate Teacher Certification Programs as well as the Graduate Program. Certification programs include:

- Early Childhood Education (0-8 yrs)
- Primary/Middle and Middle/Secondary Education (grades K-9 or 6-12 in the areas of learning disabilities, cognitive disabilities, and emotional disturbance)

Up to 15 credits of coursework in the certification program may be applied to the Master's degree in addition to 15 credits of core requirements.

Under the auspices of the PhD program in Urban Education, the Department offers doctoral level training with a designated specialization in Exceptional Education.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

- Personal interview to determine an applicant's basis for seeking admission, potential for completion of the program, and relevant background and experience in exceptional education.

Credits and Courses
The minimum degree requirement is 30 graduate credits, of which 18 credits must be in Exceptional Education. The remaining credits may be taken either in or outside of the School of Education. Courses in either the Certification Option or General Option are determined in consultation with an advisor from suggested course options identified by the Department.

Program Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 715</td>
<td>Issues and Trends in Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 770</td>
<td>Seminar: Research on Individuals With Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Issues or Methods in Urban Special Education</td>
<td>(determined in collaboration with a faculty advisor)</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 890</td>
<td>Master's Research Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Certification Option (Up to 15 credits)
A student pursuing the Certification Option must be admitted to the Department of Teaching and Learning's Post-Baccalaureate Teacher Certification Program (consult Undergraduate Bulletin for more information on admission dates and requirements). In consultation with an advisor, a student selects up to 18 credits of coursework required in the certification program for graduate credit. Additionally, the student enrolls in 12 credits of program core requirements. Listed below are the courses in each of the certification programs that can be taken for graduate credit.

Instruction
Middle Childhood/Early Adolescence (MCEA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 574</td>
<td>Curriculum Accommodations II: Primary/Middle</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 601</td>
<td>Behavioral Supports</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 681</td>
<td>Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>

Deaf/Hard of Hearing (DHH)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 533</td>
<td>Assessment/Monitoring : Deaf &amp; Hard of Hearing</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 562</td>
<td>Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 563</td>
<td>Speechreading/Auditory Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 564</td>
<td>Communication Methods Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>
Global Educator, Graduate Certificate

**Early Childhood Special Education (ECSE)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 565</td>
<td>Techniques of Teaching School Subjects to Individuals w/Hearing Impairments II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 671</td>
<td>Behavior Support &amp; Intervention for Mid/High Students with Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

**Early Adolescence/Adolescence (EAA)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 576</td>
<td>Curriculum Accommodations III: Functional for Middle to High Students</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>2</td>
</tr>
<tr>
<td>EXCEDUC 636</td>
<td>Curriculum Accommodations</td>
<td>2</td>
</tr>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 681</td>
<td>Literacy II</td>
<td>3</td>
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</table>

**Early Childhood Special Education (ECSE)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 568</td>
<td>Curriculum and Methods for Special Education: Birth to Three</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 569</td>
<td>Curriculum and Methods for Special Education: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 570</td>
<td>Curriculum and Methods for Special Education: Primary</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 586</td>
<td>Teaching Experience I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC/CURRINS 612</td>
<td>Collaborations for Teachers with Families, Schools, and Communities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC/ED PSY 613</td>
<td>Infant and Early Childhood Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 647</td>
<td>Early Childhood Special Education Field Experience: 0 to 3 Yrs</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 648</td>
<td>Early Childhood Special Education Field Experience: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 682</td>
<td>Language and Literacy in Early Childhood Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 776</td>
<td>Fieldwork with Students Having Early Childhood-Exceptional Education Needs</td>
<td>3</td>
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</tbody>
</table>

**Administration and Supervision**

In cooperation with Administrative Leadership

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 780</td>
<td>Internship in Student Service Administration</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 805</td>
<td>Legislative and Legal Aspects of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 579</td>
<td>Current Topics in Exceptional Education:</td>
<td>1-3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 960</td>
<td>Seminar: Administration/Supervision of Programs for Exceptional Individuals</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 10-12

**General Option (15 credits)**

The general option for a Master's program in Exceptional Education is developed by identifying a theme of study that is based upon the student's educational background, areas of professional interest, and professional development goals. A theme, for example, may focus on assessment, instruction, policy, or other relevant issues in the area of special education. Courses are selected in consultation with a faculty advisor.

**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

**Thesis**

A thesis or master's project is required for all students in the certification and general options. All students are required to present the results of their thesis or project at a seminar session in the semester in which they complete their degree.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Doctor of Philosophy in Urban Education**

**Specialization in Exceptional Education**

Under the auspices of the doctoral program in Urban Education, the Department of Teaching and Learning provides doctoral training with a specialization in Exceptional Education. The program emphasizes the study of the socio-cultural context, educational policy, research-based practices, and systems change and reform to support learning and development of individuals with disabilities. Prospective doctoral students wishing to specialize in Exceptional Education must first be admitted to the Urban Education Doctoral Program. Admission and general program requirements can be obtained from the Director of Doctoral Studies in Urban Education. This program is described in detail in the Urban Education (http://uwm.edu/graduateschool/urban-education/) program page.

**Accelerated Program Option**

This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).

**Global Educator, Graduate Certificate**

The Global Educator Certificate prepares future educator professionals in K-12 schools or other educational settings to integrate global content and approaches into their professional practice. The certificate is designed for learners studying in graduate programs in the School of Education.

This 15-credit certificate will be available at two possible levels under the following terms:

- Graduate Students: Students formally admitted to and enrolled in a graduate program may count Global Educator Certificate credits toward their graduate degree program as allowed by the home department of their degree and Graduate Faculty Committee certificate policy.
• Post-Graduate: Teachers and others, who have completed a master’s, doctoral degree, advanced certificate, or equivalent. Other post-graduates may seek the certificate as part of their preparation for National Board Certification. It is conceivable that a student holding a graduate degree and seeking additional advanced training short of another full graduate degree may be interested in this certificate.

Learning Objectives and Competencies
Students who have completed this certificate will be able to:

• Demonstrate their own awareness of the interconnectedness between communities, societies, economies, and events and trends that cross national borders.
• Embed global perspectives and practices in their teaching.
• Prepare students to become model global citizens who are culturally sensitive and informed about world affairs.
• Develop students’ understanding of different cultures and languages, enhancing their ability to communicate across cultures.
• Create scholarship that engages in critical inquiry, creativity and intellectual development and includes world trends, issues and events; past, present and into the future.

Admission Requirements
Eligibility
To pursue this certificate, students must be enrolled in a graduate degree program at UWM.

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
This 15-credit certificate will be available at two possible levels under the following terms:

a. Graduate Students: Students formally admitted to and enrolled in a graduate program may count Global Educator Certificate credits toward their graduate degree program as allowed by the home department of their degree and Graduate Faculty Committee certificate policy.

b. Post-Graduate: Teachers and others, who have completed a master’s, doctoral degree, advanced certificate, or equivalent. Other post-graduates may seek the certificate as part of their preparation for National Board Certification. It is conceivable that a student holding a graduate degree and seeking additional advanced training short of another full graduate degree may be interested in this certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ED POL 822</td>
<td>Global Educational Studies</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 823</td>
<td>Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 833</td>
<td>Seminar in Multicultural Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 497</td>
<td>Study Abroad</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 497</td>
<td>Study Abroad</td>
<td></td>
</tr>
<tr>
<td>or ED POL 497</td>
<td>Study Abroad</td>
<td></td>
</tr>
<tr>
<td>or EXCEDUC 497</td>
<td>Study Abroad</td>
<td></td>
</tr>
<tr>
<td>or ED POL 698</td>
<td>Fieldwork in International Education</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 547</td>
<td>Comparative Special Education</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 608</td>
<td>Multicultural Learning and Teaching in Special Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 705</td>
<td>Sociology of Education and Community Engagement</td>
<td></td>
</tr>
<tr>
<td>CURRINS 734</td>
<td>Advanced Problems in the Teaching of Foreign Languages</td>
<td></td>
</tr>
<tr>
<td>CURRINS 721</td>
<td>Advanced Problems in the Teaching of Social Studies</td>
<td></td>
</tr>
<tr>
<td>CURRINS 779</td>
<td>Current Topics in Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td>CURRINS 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements
Transfer Credit
A maximum of 3 credits may be transferred to count toward the Global Educator certificate program's 15-credit requirement. Transfer credits will be evaluated by the departmental faculty advisor for consideration, if the applicant can provide acceptable evidence that the course taken is substantially the same as one of the certificate courses within the last five years with a grade of B or better. Other credits earned prior to their intent to pursue the Global Educator certificate will not be awarded retroactively.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not
contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Global Educator, Undergraduate Certificate**

The Global Educator Certificate prepares future educator professionals in K-12 schools or other educational settings to integrate global content and approaches into their professional practice.

**Requirements**

Undergraduate applicants must have a minimum 2.75 cumulative undergraduate grade point average and must declare their intent to pursue the certificate before completion of six credits in the Global Educator Certificate sequence.

A minimum GPA of 3.0 is required in certificate courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Education Course</strong></td>
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<td>3</td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
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<tr>
<td><strong>Core Electives</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology</td>
<td></td>
</tr>
<tr>
<td><strong>Global Foundations - choose one:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 547</td>
<td>Comparative Special Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 520</td>
<td>Peace Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 521</td>
<td>Nonviolence in Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 313</td>
<td>Teaching Economics in the Social Studies Curriculum</td>
<td></td>
</tr>
<tr>
<td>CURRINS 323</td>
<td>Teaching of Social Studies:</td>
<td></td>
</tr>
</tbody>
</table>

**Global Learning Component - choose one:** 3

- Any study abroad course (at least 3 credits)
- Fieldwork (major advisor approval needed)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 688</td>
<td>Fieldwork in Multicultural Education</td>
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</tr>
<tr>
<td>ED POL 698</td>
<td>Fieldwork in International Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 240</td>
<td>Field Experience with Dual Language Learners</td>
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</tr>
</tbody>
</table>

**Other Electives** 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature</td>
<td></td>
</tr>
<tr>
<td>CURRINS 240</td>
<td>Field Experience with Dual Language Learners</td>
<td></td>
</tr>
<tr>
<td>CURRINS 297</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 312</td>
<td>Models and Issues for Early Childhood Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 497</td>
<td>Study Abroad</td>
<td></td>
</tr>
<tr>
<td>CURRINS 501</td>
<td>Language Acquisition for Children of Diverse Backgrounds</td>
<td></td>
</tr>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 508</td>
<td>Language and Urban Schooling</td>
<td></td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td></td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
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</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
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<tr>
<td>CURRINS 550</td>
<td>Using Children’s Literature to Explore Latin Am/Latino Cultural Heritage</td>
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<tr>
<td>CURRINS 651</td>
<td>Literature for the Young Child</td>
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<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
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</tr>
<tr>
<td>ED POL 315</td>
<td>Group Process and Civic Engagement:</td>
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<tr>
<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
<td></td>
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<tr>
<td>GLOBAL 312</td>
<td>The Global City in History</td>
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</tr>
<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td></td>
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<tr>
<td>GLOBAL 371</td>
<td>Rethinking Global Security</td>
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<tr>
<td>GLOBAL 421</td>
<td>Cities in the Global Economy</td>
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<tr>
<td>GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
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</tr>
<tr>
<td>GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 448</td>
<td>Intellectual Property in the Global Information Economy</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 451</td>
<td>Access, Security, and Intercultural Contexts in Global Communications</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 461</td>
<td>The Politics and Policy of Sustainability</td>
<td></td>
</tr>
<tr>
<td>GLOBAL 471</td>
<td>Strategies for Realizing Security in Global Contexts</td>
<td></td>
</tr>
</tbody>
</table>
Inclusion and Accessibility Studies, Minor

The Inclusion and Accessibility Studies Minor will enable individuals from a variety of fields to have a foundational body of knowledge that will aid them in working with individuals with disability labels. Creating access to services and spaces in society is an important responsibility for all individuals; the minor in Inclusion and Accessibility Studies is applicable to undergraduates in a variety of fields, including: General and Special Education Teachers, Criminal Justice, Speech and Hearing Science, Business Administration, Occupational Science/Occupational Therapy, Physical Therapy, Nursing, the Arts, American Sign Language Studies, and American Sign Language interpreting.

Requirements

### Required Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EXCEDUC 547</td>
<td>Comparative Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 548</td>
<td>Introduction to Disability Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 595</td>
<td>Technology Applications for Diverse Learners</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 608</td>
<td>Multicultural Learning and Teaching in Special Education</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 612</td>
<td>Collaborations for Teachers with Families, Schools, and Communities</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td></td>
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</tbody>
</table>

### Strands (select one of the following)

#### Strand 1: Transition

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EXCEDUC 679</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
<td>3</td>
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</tbody>
</table>

Choose two 500-level courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 503</td>
<td>Job Development and On the Job Support for Students with Disabilities</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 505</td>
<td>Transition Assessment for Individuals with Disabilities</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 507</td>
<td>Linking Academics and Self-Determination to Transition Planning</td>
<td></td>
</tr>
</tbody>
</table>

#### Strand 2: Autism Spectrum Disorders

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 560</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 561</td>
<td>Methods for Working with Individuals with Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 585</td>
<td>Field Experience in Autism Spectrum Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Strand 3: American Sign Language

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Completion

- 18 credits, at least 9 at the 300 level and above;
- Minimum GPA of 2.5 on all credits in the minor, including UWM and transfer credits

### Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/).
- Come prepared with questions or topics for discussion.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
soeinfo@uwm.edu

#### Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

#### Transfer Student Not Yet Enrolled at UWM?

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.
Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people/). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison/).

Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate

This graduate certificate program offers a unique opportunity for students interested in language and literacy intervention to gain and apply knowledge about research, theory and practice across a variety of relevant disciplines. Prospective language and literacy specialists venturing into today’s school environments would benefit from an understanding of leadership, teaching and learning theory, research, and effective practice across the broad range of disciplines involved in interventions. Successful interventionists require many tools to teach, as well as the skills to know when and how to apply those tools. These skills come from a critical, reflective understanding of the research and theory, as well as a complex problem-solving approach to assessment and instruction. The 16-credit certificate program is multi-disciplinary, drawing upon current coursework in Educational Psychology, and teaching and learning in the School of Education, as well as courses in Communication Sciences and Disorders in the College of Health Sciences.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Applicants must have completed a bachelor’s degree prior to admission, must have a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Sixteen credits are required as indicated below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY/LINGUIS 748</td>
<td>Oral Language, Cognition, and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>Required Core</td>
<td>Language and Literacy Intervention Electives</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits</td>
<td>from the following:</td>
<td>12</td>
</tr>
<tr>
<td>COMSDIS 661</td>
<td>The Role of the Speech-language Pathologist in Literacy</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 799</td>
<td>Independent Studies (Application of Theory to Learning Activities (1 credit))</td>
<td></td>
</tr>
<tr>
<td>CURRENS 543</td>
<td>Developing Biliteracy</td>
<td></td>
</tr>
<tr>
<td>CURRENS 646</td>
<td>University of Wisconsin System Reading Research Symposium</td>
<td></td>
</tr>
<tr>
<td>CURRENS 647</td>
<td>Early Reading Empowerment: Part 1</td>
<td></td>
</tr>
<tr>
<td>CURRENS 648</td>
<td>Early Reading Empowerment: Part 2</td>
<td></td>
</tr>
<tr>
<td>CURRENS 747</td>
<td>Reading Assessment and Instruction with Practicum: K-12 Part I</td>
<td></td>
</tr>
<tr>
<td>CURRENS 748</td>
<td>Reading Assessment and Instruction with Practicum, K-12: Part II</td>
<td></td>
</tr>
<tr>
<td>CURRENS 846</td>
<td>Seminar in Developmental Reading: (with the topic of “Current Trends in Literacy”)</td>
<td></td>
</tr>
<tr>
<td>CURRENS 849</td>
<td>Guiding and Directing School Reading Programs K-12</td>
<td></td>
</tr>
<tr>
<td>CURRENS 740</td>
<td>UWM Writing Project: Teachers as Writers</td>
<td></td>
</tr>
<tr>
<td>CURRENS 741</td>
<td>UWM Writing Project: Teachers in Writing</td>
<td></td>
</tr>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td></td>
</tr>
<tr>
<td>ED PSY 779</td>
<td>Current Topics in Educational Psychology: (with the topic of “Self-Regulation Assessment and Interventions”)</td>
<td></td>
</tr>
<tr>
<td>ED PSY 852</td>
<td>Social, Psychological, and Biological Basis of Learning Disorders</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 685</td>
<td>Advanced Methods in Learning Disabilities</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td></td>
</tr>
<tr>
<td>Required Core</td>
<td>Other LINGUIS courses upon approval of the Certificate Director</td>
<td></td>
</tr>
<tr>
<td>ILLI Capstone — Independent Study with advisor</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Additional Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.
Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   • 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
   • 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Mathematics Teacher Leadership, Graduate Certificate
This certificate program provides teachers with current professional knowledge of mathematics teaching, learning trajectories, and assessment. It also imparts mathematical knowledge specialized for teaching and content-focused coaching strategies to improve instruction and student learning in mathematics.

Certificate completers will be positioned to contribute mathematics leadership as members of collaborative professional learning communities in schools, school districts, and other educational settings.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants must have completed a bachelor’s degree with a 2.75 undergraduate GPA or a graduate degree with a minimum 3.0 GPA and must have teaching experience in mathematics.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students complete 15 credits of coursework, including courses in instructional improvement, mathematics education, and mathematics instruction leadership.

<table>
<thead>
<tr>
<th>Code</th>
<th>Instructional Improvement</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 560</td>
<td>Improving Mathematics Teaching and Learning: (Subtitled)</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>CURRINS 715</td>
<td>Guiding Instructional Improvement</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>CURRINS 725</td>
<td>Improving Teaching and Learning with Classroom-Based Assessments</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics Education
Select 6-10 credits from the following:

| Code     | Mathematics Education: (Subtitled)                        | 6-10                                                      |         |
| CURRINS 580 |                                                                 | 6-10                                                      |         |
| CURRINS 720 | Curriculum and Standards for School Mathematics            | 6-10                                                      |         |
| CURRINS 624 | Instructional Trajectories for Fraction Concepts and Operations | 6-10                                                      |         |
| CURRINS 625 | Principles and Practices of Teaching Geometry and Geometric Thinking | 6-10                                                      |         |
| CURRINS 626 | Principles and Practices of Teaching Algebraic Reasoning    | 6-10                                                      |         |
| CURRINS 730 | Mathematics in Elementary Education                        | 6-10                                                      |         |
| CURRINS 731 | Mathematics in the Secondary School                        | 6-10                                                      |         |
| CURRINS 779 | Current Topics in Curriculum and Instruction: (Mathematics education subtitle) | 6-10                                                      |         |

Capstone
CURRINS 761 Mathematics Instructional Leadership 3

Total Credits 12-19
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Transfer credits will be considered only if the applicant can provide evidence that the course is substantially the same as an approved course in the certificate program. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Transition for Students with Disabilities, Graduate Certificate

The Transition for Students with Disabilities Graduate Certificate provides students with increased knowledge and awareness of state-of-the-art transition planning, as well as experience with specific strategies related to transition assessment, instruction, and community/business collaboration. Those who complete the Transition for Students with Disabilities Certificate program will be able to critically examine and implement effective transition planning while ensuring students are accessing the general education curriculum; effectively collaborate with the business and general community to access work and post-secondary experiences for students with disabilities; implement customized job development strategies to meet the needs of students and the business; identify and collaborate with various community based organizations; learn strategies to develop self-determination and self-advocacy skills for students with disabilities; and understand cultural and ethnic diversity issues related to transition planning.

The courses are aligned with the APSE (www.apse.org) professional standards and will provide the knowledge and skills to pass the national Certification of Employment Support Professionals (CESP).

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

Admission
Applicants must have completed a bachelor’s degree prior to admission, with a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

The certificate requires a minimum of 15 credits. Students take five required courses and then, in consultation with the Program Coordinator, they may choose to take an optional 3 credit course in Business Management for more in-depth knowledge of working with the business community.

<table>
<thead>
<tr>
<th>Code</th>
<th>Required</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 679</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 703</td>
<td>Job Development and On the Job Support for Individuals with Disabilities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 705</td>
<td>Transition Assessment for Individuals with Disabilities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 707</td>
<td>Linking Academics and Self-Determination to Transition Planning</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Elective Course
Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 598</td>
<td>Introduction to Workforce Education and Development</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
</tr>
</tbody>
</table>
**BUS ADM 444**  
Human Resources Management

**BUSMGMT 708**  
Marketing Strategy: Concepts and Practice

**BUSMGMT 715**  
Leadership, Team Building, and Effective Management

Total Credits 15

**Additional Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**World Language, Minor**

The World Languages minor is designed for individuals who wish to earn a Wisconsin teaching certification to teach a foreign language. Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

**Requirements**

Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

---

**Language Content Area**

Complete total credits in chosen language, plus any prerequisites.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXC301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXC302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXC303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXC304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXC305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXC306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXC330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXC346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXC352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>EXC510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 30

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHN101</td>
<td>First Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHN102</td>
<td>Second Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHN201</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHN202</td>
<td>Fourth Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHN301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHN302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHN320</td>
<td>Contemporary Chinese Societies through Film</td>
<td>3</td>
</tr>
<tr>
<td>CHN401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHN402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 31

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRN103</td>
<td>First-Semester French</td>
<td>4</td>
</tr>
<tr>
<td>FRN104</td>
<td>Second-Semester French</td>
<td>4</td>
</tr>
<tr>
<td>FRN203</td>
<td>Third-Semester French</td>
<td>3</td>
</tr>
<tr>
<td>FRN204</td>
<td>Fourth-Semester French</td>
<td>3</td>
</tr>
<tr>
<td>FRN303</td>
<td>Conversation and Composition: Intermediate Level</td>
<td>3</td>
</tr>
<tr>
<td>FRN332</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete 9 credits of 300-level or higher French electives. 9

Total Credits 29

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER101</td>
<td>First-Semester German</td>
<td>4</td>
</tr>
<tr>
<td>GER102</td>
<td>Second-Semester German</td>
<td>4</td>
</tr>
<tr>
<td>GER203</td>
<td>Third-Semester German</td>
<td>3</td>
</tr>
<tr>
<td>GER204</td>
<td>German in Your Field and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>GER331</td>
<td>German Grammar in Practice</td>
<td>3</td>
</tr>
<tr>
<td>GER332</td>
<td>Presentation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GER333</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>GER334</td>
<td>Introduction to German Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
Complete 9 credits of 300-level or higher German electives.  
Total Credits 35

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hebrew</td>
<td>Consult with a faculty or academic advisor regarding courses.</td>
<td>18</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italian</td>
<td>ITALIAN 103 - First-Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ITALIAN 104 - Second-Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ITALIAN 203 - Third-Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ITALIAN 204 - Fourth-Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ITALIAN 311 - Advanced Conversation and Composition</td>
<td>3</td>
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<td></td>
<td>ITALIAN 312 - Contemporary Italian Language and Culture</td>
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Complete 12 credits of 300-level or higher Italian electives.  
Total Credits 32

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<tr>
<td>Latin</td>
<td>LATIN 103 - First Semester Latin</td>
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<tr>
<td></td>
<td>LATIN 104 - Second Semester Latin</td>
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<td>LATIN 205 - Third Semester Latin</td>
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<td>Complete 9 credits of 300-level or higher Latin electives.</td>
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<td>Complete 3 credits of 300-level or higher Latin or Classic electives.</td>
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<td>Russian</td>
<td>Consult with a faculty or academic advisor regarding courses.</td>
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<td></td>
<td>SPANISH 104 - Second-Semester Spanish</td>
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<td></td>
<td>SPANISH 203 - Third-Semester Spanish</td>
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<td></td>
<td>SPANISH 204 - Fourth-Semester Spanish</td>
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<td>SPANISH 308 - Advanced Writing and Reading</td>
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<td>SPANISH 318 - Advanced Speaking and Listening</td>
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<td>SPANISH 319 - Advanced Speaking and Listening for Heritage Speakers</td>
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<td></td>
<td>SPANISH 341 - Introduction to Hispanic Linguistics</td>
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<td>Select two of the following:</td>
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<td>SPANISH 470 - Survey of Hispanic Literature and Civilization</td>
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<tr>
<td></td>
<td>SPANISH 472 - Survey of Spanish-American Literature and Civilization</td>
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<td></td>
<td>SPANISH 474 - Survey of Spanish Literature and Civilization</td>
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<tr>
<td>SPANISH 506</td>
<td>Seminar in Spanish Literature:</td>
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<td>SPANISH 507</td>
<td>Seminar in Spanish-American Literature:</td>
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<td>SPANISH 508</td>
<td>Seminar in Hispanic Literature:</td>
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<td>SPANISH 571</td>
<td>Seminar in Spanish-American Colonial Literature and Civilization:</td>
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<td>SPANISH 572</td>
<td>Seminar on Cervantes:</td>
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<tr>
<td>SPANISH 575</td>
<td>Seminar in 18th &amp; 19th Century Spanish-American Literature &amp; Civilization:</td>
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<tr>
<td>SPANISH 577</td>
<td>Seminar in Modern Spanish-American Literature and Civilization:</td>
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<td>SPANISH 578</td>
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<td>Complete 3 credits of 300-level or higher Spanish electives.</td>
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<td>CURRINS 542 - History and Politics of Second Language Education</td>
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<td>CURRINS 637 &amp; CURRINS 437 - World Language Methods and Materials and Student Teaching in World Language-Minor:</td>
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<td>CURRINS 445 - Seminar in Language Education</td>
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1 A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.
2 Concurrent enrollment in these courses is required. Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 432) for details.
3 Not required for students who are currently completing a portfolio in their major certification

Additional Requirements for Certification
- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Undergraduate students must meet the graduation requirements for their primary certification.
- Program Portfolio - based on the 10 WI Teacher Standards.

Benchmarks

Student Teaching
Prior to requesting/beings assigned a student teaching placement, students must:
- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a semester or a year in a country where the chosen major language...
is spoken. Submit documentation of immersion experience to your academic advisor prior to student teaching placement.

- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. ([http://uwm.edu/education/academics/clinical-experiences/](http://uwm.edu/education/academics/clinical-experiences/))

To be approved, students must ALSO meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student’s faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience

### Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS ([http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/](http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/)).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

### Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

---

### Transfer Student Not Yet Enrolled at UWM?

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Rob Longwell-Grice, at (414) 229-3059 or robert@uwm.edu.

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory ([https://uwm.edu/education/people/](https://uwm.edu/education/people/)). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth ([https://uwm.edu/education/people/hochmuth-allison/](https://uwm.edu/education/people/hochmuth-allison/)).

### Urban Education

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Cognitive and Developmental Sciences, Research Methodology, and School Psychology is offered through the Department of Educational Psychology ([http://uwm.edu/graduateschool/educational-psychology/](http://uwm.edu/graduateschool/educational-psychology/)). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is
an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Programs

- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 435)
- Urban Education, PhD: Art Education (p. 438)
- Urban Education, PhD: Curriculum and Instruction (p. 441)
- Urban Education, PhD: Educational Administration (p. 443)
- Urban Education, PhD: Exceptional Education (p. 446)
- Urban Education, PhD: Mathematics Education (p. 449)
- Urban Education, PhD: Multicultural Studies (p. 452)
- Urban Education, PhD: Social Foundations of Education (p. 455)

Faculty

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<th>Emeritus Faculty</th>
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<td>Cheryl Baldwin</td>
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<tr>
<td>Barbara Bales</td>
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<td>Maggie Bartlett</td>
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<td>Craig Berg</td>
<td>Professor</td>
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<td>Simone Conceição</td>
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<td>Kimberly Cosier</td>
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<td>Candance Doer-Stevens</td>
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Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL)

Specialization Overview

The primary mission of the specialization in Adult, Continuing, and Higher Education Leadership (ACHEL) is to prepare individuals for leadership positions in urban adult, continuing, and higher educational organizations. The specialization will assist students to examine changing perspectives on urban postsecondary, adult and continuing educational organizations; changing notions of urban adult, continuing, and higher education teaching and learning; and the changing roles of the students, teachers, researchers, and administrators who work and study within urban adult, continuing, and higher education organizations.

For course descriptions in this area, visit the Administrative Leadership page (http://wwwdev.uwm.edu/graduateschool/administrative-leadership/).

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All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination

Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average

Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student's program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.
2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Adult, Continuing, and Higher Education Leadership Specialization
Subsequent to UEDP admission, the student must submit a program of studies for the concentration in Adult, Continuing, and Higher Education Leadership, developed in conjunction with the student's faculty advisor and committee, to the Director of the Urban Education Doctoral Program.

The student must meet all of the program requirements of the Urban Education Doctoral Program. The specialization in Adult, Continuing, and Higher Education Leadership consists of a minimum of (34) graduate credits excluding dissertation credits.

The coursework will be structured as follows:
### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 827</td>
<td>Seminar in Adult and Organizational Learning</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 897</td>
<td>Seminar in the Philosophy and History of Adult, Continuing &amp; Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 967</td>
<td>Seminar in Urban Adult, Continuing, and Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 999</td>
<td>Independent Reading</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 709</td>
<td>Introduction to Higher Education Administration</td>
<td>3</td>
</tr>
<tr>
<td>or AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 12-15

### Additional Requirements

#### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

#### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

#### Residence

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student's responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

#### Doctoral Committee Membership

The dissertation advisor is an Urban Education doctoral advisor and member of the Department of Administrative Leadership. At least two other committee members must be from the Department of Administrative Leadership.

#### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.
Dissertation
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

Dissertation Defense
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

Other Requirements
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/)

Exit Requirements
Contingent upon successful completion of program requirements, the doctoral preliminary examination, and the dissertation defense, the Chair of the Department of Administrative Leadership must give final approval for the inclusion of “Urban Education: Adult, Continuing, and Higher Education Leadership” on the student’s transcript.

Urban Education, PhD: Art Education
The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects, and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Requirements
Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(prerequisite is ED PSY 624)</td>
<td></td>
</tr>
<tr>
<td>CURRINS/AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track</td>
<td>6</td>
</tr>
<tr>
<td>Approved research design course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.
1. **Option A**: A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.

2. **Option B**: A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

### Art Education Specialization

Students wishing to specialize in Art Education must first be admitted to the Urban Education Doctoral Program (UEDP). Applications will be reviewed by the UEDP Admissions Committee as well as the Art Education graduate faculty in the Department of Art and Design within the Peck School of the Arts.

### Specialization Requirements

1. The student must meet all Urban Education Doctoral Program requirements.
2. The student must submit a program for concentration in Art Education, developed in conjunction with the student's advisor. The program of study must be reviewed and approved by the Art Education graduate faculty and the UEDP director.
3. Students not having the equivalent of a master of arts, master of science, or master of fine arts degree in art education, or related field recognized by the Department of Art and Design may be required to take appropriate coursework as a prerequisite to the doctoral specialization in Art Education.
4. Students will be required to pass a preliminary examination by demonstrating competence in urban education, research methods, the specialization in Art Education, and their additional area of study.
5. A dissertation will be required in the specialization area of Art Education. The dissertation advisor must be an approved doctoral advisor or major professor who is a member of the specialization faculty.

For a specialization in Art Education, coursework must be completed in four areas:

1. Urban education
2. Research
3. Art education
4. An additional area of study

At least 27 credits must be completed in doctoral status at UWM, not including dissertation credits.

#### Code Title Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 701</td>
<td>Urban Educational Issues</td>
<td>9</td>
</tr>
<tr>
<td>ART ED 801</td>
<td>Seminar in Urban Education and the Visual Arts</td>
<td></td>
</tr>
<tr>
<td>EDUC 901</td>
<td>Advanced Seminar in Urban Education</td>
<td></td>
</tr>
</tbody>
</table>

### Research Methods Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>2</td>
</tr>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td>2</td>
</tr>
<tr>
<td>AD LDSP/CURRINS 729</td>
<td>Qualitative Research and Field Studies in Education Settings</td>
<td>2</td>
</tr>
</tbody>
</table>

Select at least 6 credits (700-level or above) from either a quantitative track or a qualitative track

### Major Concentration Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 810</td>
<td>Curricular Designs for Art Instruction</td>
<td>9</td>
</tr>
<tr>
<td>ART ED 830</td>
<td>Teaching Art With Works of Art</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits in Art Education courses (700-level or above)

Select 9 credits in a specific area

Select at least 6 credits in one department outside the Department of Art and Design and the School of Education that enables the research endeavor

**Total Credits**: 55

1. Students should work with the major professor to determine the appropriate advanced level courses.
2. Select 9 credits in a specific area such as:
   - Content Area (studio practices, art history, aesthetics, art criticism, cultural foundations, research methods).
   - Education level (early childhood, elementary, secondary, higher education, adult).
   - Social Contexts (museums, community studies, preK-12, gifted and talented, global studies, interdisciplinary practices).
   - Curricular Issues (assessment and evaluation, digital and electronic media and instruction, curriculum studies).

### Additional Requirements

#### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

#### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

#### Residence

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student's responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

#### Doctoral Committee Membership

Three graduate faculty from the Department of Art and Design, at least two of which must be from the Art Education area (including the major professor).

#### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers
the area of specialization, urban education, the minor, and research methods.

**Dissertation**
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/)

**Exit Requirements**
Contingent upon the satisfactory completion of program requirements, the preliminary qualifying examination, and the successful oral defense of the dissertation, the Urban Education Doctoral Committee chair will give final approval for the specialization inclusion on transcripts.

**Urban Education, PhD: Curriculum and Instruction**

The specialization in Curriculum and Instruction (C&I) gives students an opportunity to improve professional experiences with the students they teach, the educational contexts in which they work, and their disciplinary and content knowledge. The Curriculum and Instruction specialization combines theoretical and disciplinary content knowledge, practical experiences and scholarly activities.

The program prepares education professionals to work in such varied settings as schools, colleges and universities, school district central offices, government agencies, community organizations and private consulting. Graduates of the program are prepared for leadership roles as curriculum directors, instructional coordinators, school partnership coordinators, applied researchers, professional development coordinators and professors.

For course descriptions in this area, visit the Curriculum and Instruction page (http://wwwdev.uwm.edu/graduateschool/curriculum-instruction/#courses).

**Degree Overview**
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

**Cooperating Departments**
- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

**Graduate Record Examination**

Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

**Grade Point Average**

Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

**Writing Sample**

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

**Interview**

An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

**Recommendations**

An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

**Application**

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.

2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

**Credits and Courses**

Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

**The Doctoral Seminars**

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

**Research Requirement**

Department specialization requirements may exceed those specified here.

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<td>ED PSY 724</td>
<td>Educational Statistical Methods II (prerequisite is ED PSY 624)</td>
<td>4</td>
</tr>
<tr>
<td>CURRINS/AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
<tr>
<td>Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track</td>
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<td></td>
</tr>
<tr>
<td>Approved research design course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: **16**

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

**Designated Specialization**

Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

**Minor**

Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their
specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

**Curriculum and Instruction Specialization**

1. Students wishing to specialize in Curriculum and Instruction must first be admitted to the Urban Education Doctoral Program (UEDP).
2. Subsequent to UEDP admission, the student must submit to the Curriculum and Instruction Graduate Committee a program for concentration in Curriculum and Instruction developed in conjunction with the student’s advisor.

The student must meet all of the program requirements of the Urban Education Doctoral Program.

Specialization in Curriculum and Instruction consists of a minimum of 24 credits, 18 of which must be taken in Curriculum and Instruction. No more than 6 credits taken prior to admission to the PhD program may be counted toward the specialty. The credits are to be distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 813</td>
<td>Instructional Research and Theory</td>
<td>9</td>
</tr>
<tr>
<td>CURRINS 816</td>
<td>Curriculum Designs for Urban Schools</td>
<td></td>
</tr>
<tr>
<td>CURRINS 819</td>
<td>Theory and Design of Curriculum</td>
<td></td>
</tr>
</tbody>
</table>

**Curriculum and Instruction Area of Interest**

Select a minimum of 15 credits in the following:

- Content area: (e.g., reading)
- Education level area: (e.g., early childhood)
- General area: (e.g., curriculum theory)
- Special area: (e.g., guiding instructional improvement)

**Total Credits**

The UEDP doctoral preliminary examination includes a section covering the student’s Curriculum and Instruction specialization.

A dissertation with a Curriculum and Instruction emphasis is required. The dissertation advisor must be an UEDP doctoral advisor and a member of the Department of Teaching and Learning. At least two other committee members must be from Curriculum and Instruction.

**Additional Requirements**

**Major Professor**

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

**Residence**

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

**Doctoral Preliminary Examination**

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

**Dissertation**

The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/)

**Exit Requirements**

Contingent upon completion of program requirements, the doctoral preliminary examination, and the successful defense of the dissertation, the Chair of the Department of Teaching and Learning will give final approval for the inclusion of “Urban Education: Curriculum and Instruction” on the student’s transcript.

**Urban Education, PhD: Educational Administration**

The specialization in Educational Administration focuses on the development of educational leaders, particularly for service in urban metropolitan areas. Individuals trained in this program can provide
excellence in leadership by nurturing leadership among others in the school community, creating a positive work environment for students, staff, and parents, and lastly contribute to the quality of teaching and learning in the district and within its schools. The curriculum draws from a variety of sources including current research and literature, national and state professional association standards, federal and state governmental guidelines, and the field of practice.

For course descriptions in this area, visit the Administrative Leadership page (http://wwwdev.uwm.edu/graduateschool/administrative-leadership/).

Degree Overview
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:
1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the
majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II (prerequisite is ED PSY 624)</td>
<td>4</td>
</tr>
<tr>
<td>CURRINS/AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
<tr>
<td>Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Approved research design course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student's program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.
2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Educational Administration Specialization
Subsequent to UEDP admission, the student must submit a program for concentration in Educational Administration, developed in conjunction with the student's advisor and committee, to the chair of the department of Administrative Leadership.

The student must meet all of the program requirements of the Urban Education Doctoral Program. The specialization in Educational Administration consists of a minimum of 30 graduate credits excluding dissertation credits.

The credits are to be distributed as follows:

<table>
<thead>
<tr>
<th>PhD Non-Certification Orientation</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>AD LDSP 801</td>
<td>Urban Education: Doctoral Seminar</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>AD LDSP 832</td>
<td>Educational Politics and Policymaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AD LDSP 842</td>
<td>Program Planning and Evaluation in Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AD LDSP 862</td>
<td>School Finance</td>
<td></td>
</tr>
<tr>
<td>Electives in Administrative Leadership (700+)</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PhD District Administrator/Superintendent Certification Orientation</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>AD LDSP 801</td>
<td>Urban Education: Doctoral Seminar</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>AD LDSP 802</td>
<td>District Leadership for Learning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AD LDSP 812</td>
<td>Educational Personnel Administration and Supervision</td>
<td></td>
</tr>
</tbody>
</table>
Although a Master’s Degree and certification as a principal are prerequisites to certification as a School Superintendent in Wisconsin, doctoral students may satisfy the requirements for both licenses within their PhD Program of Study. Advisors will design such programs based on individual student need.

Any post-master’s courses taken prior to admission while enrolled as a non-degree student in the Specialist Program for School Superintendent Certification do not have to be repeated, subject to advisor and UEDC Director approval. All such credits may be applied toward the 30 credits required in the area of concentration except that in no case may a PhD area of concentration contain fewer than 9 upper level graduate credits (excluding dissertation credits) taken after admission to doctoral study. Individuals who have not completed at least 6 credits of accepted graduate coursework within the 5 year immediately prior to admission must take a minimum of 15 credits.

### Additional Requirements

#### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

#### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

#### Residence

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

#### Doctoral Committee Membership

The dissertation advisor is an Urban Education doctoral advisor and member of the Department of Administrative Leadership. At least two other committee members must be from the Department of Administrative Leadership.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

### Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/)

### Exit Requirements

Contingent upon successful completion of program requirements, the doctoral preliminary examination, and the dissertation defense, the Chair of the Department of Administrative Leadership must give final approval for the inclusion of “Urban Education: Educational Administration” on the student’s transcript.

### Urban Education, PhD: Exceptional Education

The doctoral specialization in Exceptional Education provides a program of advanced study of special education. The program emphasizes the study the socio-cultural context, educational policy, research-based practices and systems change and reform. Students in Exceptional Education take advanced coursework in special education and choose to focus on related areas such as administration, research, teacher education, curriculum design and development, and community-based supports and partnerships. In addition, students declare a minor area of interest.

Students work with their major professor to develop an individualized program which incorporates breadth as well as depth of study.

For course descriptions in this area, visit the Exceptional Education section (http://wwwdev.uwm.edu/graduateschool/exceptional-education/#courses) of this catalog.
Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestruct/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination

Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average

Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50.); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
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8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview

An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations

An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.
Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

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<td>Approved research design course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A**: A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.
2. **Option B**: A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Exceptional Education Specialization
Subsequent to UEDP admission, the student must submit credentials and a program for concentration in Exceptional Education developed in conjunction with the student’s advisor in the Department of Exceptional Education. Students also must prepare a statement expressing their interests within Exceptional Education for the departmental admissions procedure.

The doctoral specialization in Exceptional Education provides a program of advanced study of special education. The program emphasizes the study the socio-cultural context, educational policy, research-based practices and systems change and reform. Students in Exceptional Education take advanced coursework in special education and choose to focus on related areas such as administration, research, teacher education, curriculum design and development, and community-based supports and partnerships. In addition, students declare a minor area of interest.

Students work with their major professor to develop an individualized program which incorporates breadth as well as depth of study. Building on faculty expertise and research interests, focus areas for study may include:

- Teacher education
- Cultural diversity in education
- Early childhood intervention
- Assistive technology
- Curriculum accommodation & collaboration
- Literacy
- Transition to young adulthood
- Deaf education
- School reform and special education administration

In addition to advanced coursework, students participate in research and development projects, curriculum development, co-teaching, and other activities designed to prepare leaders for roles such as a college or university professor, curriculum leader, special education administrator, consultant, or project director.

The specialization requires a recent master’s degree in exceptional education or a related field (9 of these credits may be counted toward the specialization). If an applicant does not have this background,
appropriate graduate coursework and field experiences will be outlined as a prerequisite to the doctoral specialization.

- A minimum of 12 credits in Exceptional Education (800-level or above) focusing on research and practice related to teacher education, field-based practice and supervision, community programs and support for individuals with disabilities and special education research. Core courses are selected in consultation with doctoral advisor.
- A minimum of 12 credits additional electives in an Exceptional Education focus area. Up to 9 credits of recent and relevant master's degree coursework may be applied.
- The student must meet all of the program requirements of the Urban Education Doctoral Program, including:
  - Urban education Doctoral Seminars (9 credits)
  - Research Design and Methodology (13-16 credits)
  - Minor area of study (9 credits)

Additionally, students must complete preliminary examinations and a dissertation, original research with an emphasis in Exceptional Education.

**Additional Requirements**

**Major Professor**
Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

**Residence**
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

**Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

**Dissertation**
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School [Doctoral Requirements](http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/).

**Urban Education, PhD: Mathematics Education**

**Specialization Overview**
The specialization in Mathematics Education integrates mathematical knowledge for teaching within the broader field of urban education and prepares individuals to address critical issues across varied educational settings and contexts through research and scholarship in mathematics education.

For course descriptions in this area, visit the Curriculum and Instruction page [here](http://wwwdev.uwm.edu/graduateschool/curriculum-instruction/) of this catalog.

**Degree Overview**
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program
emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.
In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

**The Doctoral Seminars**
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

**Research Requirement**
Department specialization requirements may exceed those specified here.

### Code Title Credits
ED PSY 724 Educational Statistical Methods II (prerequisite is ED PSY 624) 4
CURRINS/AD LDSP 729 Qualitative Research and Field Studies in Educational Settings 3
Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track 6
Approved research design course 3
Total Credits 16

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

**Designated Specialization**
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

**Minor**
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student's program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

**Mathematics Specialization**
Subsequent to admission to the Urban Education Doctoral Program (UEDP), the student must submit a Program of Study in Mathematics Education developed in conjunction with the student’s advisor for approval by the Mathematics Education Graduate Committee and the Director of the UEDP.

The student must meet all of the program requirements of the Urban Education Doctoral Program.

The specialization in Mathematics Education consists of a minimum of 9 required credits in advanced mathematics education and 23 elective credits in mathematics education, related coursework, or an optional minor. Transfer credits from prior graduate work must fulfill program requirements and be approved by the Major Professor. At least 12 credits in mathematics education must be taken after admission to the program.

### Code Required Title Credits
CURRINS 720 Curriculum and Standards for School Mathematics 9
CURRINS 864 Integrating Mathematics Education Research into Curriculum and Instruction
CURRINS 865 Mathematics Program Design and Development

**Recommended Electives**
Select 23 credits from the following:

CURRINS 625 Principles and Practices of Teaching Geometry and Geometric Thinking
CURRINS 626 Principles and Practices of Teaching Algebraic Reasoning
CURRINS 725 Improving Teaching and Learning with Classroom-Based Assessments
CURRINS 730 Mathematics in Elementary Education
CURRINS 731 Mathematics in the Secondary School
CURRINS 761 Mathematics Instructional Leadership
CURRINS 830 Seminar in Elementary School Mathematics Education
CURRINS 861 Seminar in Mathematics Urban Education

Total Credits 32

The UEDP doctoral preliminary examination addresses the mathematics education specialization, urban education, and research methods.

A dissertation reporting the results of an original research study in Mathematics Education is required. Prior to beginning the research, the student must prepare an acceptable dissertation proposal, defend it at an oral hearing, and receive committee approval. The dissertation advisor (Major Professor) must be an approved UEDP doctoral advisor and a mathematics education faculty member of the Department of Curriculum and Instruction. At least two other committee members must be from Curriculum and Instruction.

**Additional Requirements**

**Major Professor**
Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.
Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

**Residence**
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student's responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

**Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

**Dissertation**
The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/)

**Exit Requirements**
Contingent upon satisfactory completion of program requirements, the preliminary qualifying examination, dissertation proposal hearing, and the successful oral defense of the dissertation, the Urban Education Doctoral Program Director will give final approval for the designated transcript inclusion of "Urban Education: Mathematics Education."

### Urban Education, PhD: Multicultural Studies

#### Specialization Overview

Note that while Multicultural Studies is cross-disciplinary, for the purposes of initial advising and ongoing support the departmental home for a student in this specialization is Educational Policy and Community Studies. Students in this program will be supervised jointly by the Department of Educational Policy and Community Studies and by the Urban Education Doctoral Committee, who will assign an advisor for the particular focus area the student has chosen.

For course descriptions in this area, visit the Cultural Foundations of Education section (http://uwm.edu/graduateschool/cultural-foundations-community-engagement-education/#courses) of this catalog.

#### Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills.
in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.00); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:
1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
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<td>ED PSY 724</td>
<td>Educational Statistical Methods II (prerequisite is ED PSY 624)</td>
<td>4</td>
</tr>
<tr>
<td>CURRINS/AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
</tbody>
</table>
All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

### Minor

Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

### Multicultural Specialization

1. Students seeking admission to the doctoral program must indicate their intended area of specialization. The application will be reviewed by the Admissions Committee of the Urban Education Doctoral Program as well as the interdisciplinary graduate faculty of the Multicultural Studies Area.

2. Students must write a brief statement explaining why they feel an interdisciplinary program is more relevant to their studies than one of the other discipline-specific specializations.

3. Subsequent to admission, the student must submit a program of concentration in Multicultural Studies developed in conjunction with the student’s advisor.

4. When the student’s course of studies in Multicultural Studies is approved by the Multicultural Studies interdisciplinary faculty, the student must submit a program of study to the Office of the Doctoral Studies for review and approval by the Director.

5. Prior to admission, or within the first 30 graduate credits after admittance to the Multicultural Studies specialization, the student must complete a research project, e.g., thesis or publishable paper.

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EDUC 701</td>
<td>Urban Educational Issues</td>
<td>6</td>
</tr>
<tr>
<td>EDUC 801</td>
<td>Urban Education: Seminar in Multicultural Studies</td>
<td>49</td>
</tr>
<tr>
<td>EDUC 901</td>
<td>Advanced Seminar in Urban Education</td>
<td>49</td>
</tr>
</tbody>
</table>

### Major Concentration

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED POL 805</td>
<td>Sociology of Education: Seminar</td>
<td>6</td>
</tr>
<tr>
<td>ED POL 840</td>
<td>Seminar in Educational Theory</td>
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</tbody>
</table>

### Electives in Multicultural Specialization

Select 15 graduate credits

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I (or equivalent statistical methods)</td>
<td>16</td>
</tr>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td></td>
</tr>
<tr>
<td>CURRINS 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td></td>
</tr>
<tr>
<td>ED POL 837</td>
<td>Emergent Methods in Qualitative Research for Social Foundations</td>
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Select 3 elective credits

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</table>

1. Chosen under the guidance of advisor or committee chair. 6 credits must be 800 level or above. Up to 6 relevant credits may be counted from student’s master’s program transcript, as determined by of a student’s advisor. The SOE specialization includes a tailored professional area with multicultural studies.

2. Students who meet this requirement upon admission will be asked to take another research methods class in consultation with student’s academic advisor.

### Additional Requirements

Students must be admitted first to the PhD Program in Urban Education, then specialize in Multicultural Studies. The course requirements for Multicultural Studies are outlined below.

1. Students must meet all the requirements of the Urban Education Doctoral Program.

2. Students not having a graduate degree in a field recognized by the specialization faculty may be required to take master’s level coursework as a prerequisite to admission.

### Recommended Conference Submissions/Participation

The specialization strongly recommends all students submit and present their original work at two academic conferences during the course of their studies. Conferences may be local, regional, national, or international in scope. Additionally, students are highly encouraged to contribute to papers submitted to peer-reviewed academic journals prior to graduation.

### Other Requirements

All students must adhere to all other general requirements of the Urban Educational Doctoral Program pertaining to such issues as residency, preliminary examinations, dissertation proposals and defense, and time limits.

### Doctoral Preliminary Examination

The preliminary qualifying exam will include a section covering the student’s focus area as developed with an advisor or committee chair.

### Dissertation

A dissertation with the appropriate area of emphasis is required. The dissertation committee must be composed of a minimum of four members of the graduate faculty. The dissertation advisor will be an approved doctoral advisor and a member of the School of Education.
One other member must be from the School of Education, and one or two members must be from the student developed focus area.

Exit Requirements
Contingent upon the satisfactory completion of program requirements, including the passing of the prelim/proposal defense, and the successful oral defense of the dissertation, the Urban Education Doctoral Committee Chair will give final approval for the inclusion of “Urban Education: Multicultural Foundations” on your transcript.

Urban Education, PhD: Social Foundations of Education

The PhD specialization in Social Foundations of Education provides students with a comprehensive understanding of the social forces that affect urban schools and communities. This program is designed for individuals who want to look deeply at the challenges facing urban areas in the 21st Century and are willing to explore creative solutions. Students in Social Foundations examine the sociological, historical, philosophical, anthropological, and political dimensions of schools and community change. Social foundations doctoral students may investigate issues and contexts grounded in the core disciplines of the social sciences.

Degree Overview
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology/). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:
1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.
The writing sample must be submitted with the application.

**Interview**
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

**Recommendations**
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

**Application**
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

**Credits and Courses**
Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

**The Doctoral Seminars**
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

**Research Requirement**
Department specialization requirements may exceed those specified here.
### Urban Educational Doctoral Program General Requirements

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<td>9</td>
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<tr>
<td>ED POL 801</td>
<td>Urban Education: Doctoral Seminar</td>
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</tr>
<tr>
<td>EDUC 901</td>
<td>Advanced Seminar in Urban Education</td>
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</table>

### Research Methods

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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I (or equivalent methods course)</td>
<td>16</td>
</tr>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
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<tr>
<td>ED POL 837</td>
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<td></td>
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</tbody>
</table>

### Advanced Research Course (Choose from Advanced Research list below)

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<tr>
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<tr>
<td>POL SCI 700</td>
<td>Scope and Methods of Political Science</td>
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<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
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<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
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### Social Work (each course 2 credits)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>SOC WRK 793</td>
<td>Evaluation of Practice</td>
<td></td>
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<tr>
<td>SOC WRK 794</td>
<td>Evaluation of Programs</td>
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### Urban Studies

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
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</tr>
<tr>
<td>URB STD 979</td>
<td>Qualitative Research Methods</td>
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</tr>
<tr>
<td>URB STD 982</td>
<td>Advanced Quantitative Analysis</td>
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### Qualitative Research

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<th>Code</th>
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<tbody>
<tr>
<td>CURRINS 829</td>
<td>Advanced Qualitative Research Techniques for Education Settings</td>
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<tr>
<td>CURRINS 839</td>
<td>Practicum in Writing from Qualitative Research for Educational Settings</td>
<td></td>
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### Quantitative Research

<table>
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<tr>
<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
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</tr>
<tr>
<td>ED PSY 822</td>
<td>Item Response Theory</td>
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<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
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<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
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<td>ED PSY 825</td>
<td>Multivariate Methods</td>
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<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
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<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
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<td>ED PSY 829</td>
<td>Instrument Development</td>
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<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
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<tr>
<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
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### Electives

- All courses are 3 credits unless noted

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<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
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<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
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<tr>
<td>ED POL 611</td>
<td>Community Policies and Urban Minority Youths</td>
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<tr>
<td>ED POL 613</td>
<td>Context and Foundations of Educational Policy</td>
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<tr>
<td>ED POL 620</td>
<td>History of the Education of African Americans</td>
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<tr>
<td>ED POL 624</td>
<td>Gender and Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 625</td>
<td>Race Relations in Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race, Ethnicity, and Public Policy in Urban America</td>
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</tr>
<tr>
<td>ED POL 633</td>
<td>Community Development for Low-Income and Minority Communities</td>
<td></td>
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<tr>
<td>ED POL 636</td>
<td>Issues in African American Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 639</td>
<td>Milwaukee Black Community</td>
<td></td>
</tr>
</tbody>
</table>

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1. Students who meet this requirement will be asked to take another research methods class in consultation with their academic advisor.
2. If a student has taken these courses in a master's program, comparable 800-level coursework will be selected in conjunction with the student's academic advisor.
3. Students with a Cultural Foundations of Education Master of Science degree may transfer 9 credits numbered 609 or above in which they earned an A- or better. Students with other master's degrees will be evaluated individually by the department to determine up to 9 credits that may be suitable to transfer as major elective courses. All courses selected must include research papers and be approved by the student's academic advisor.
Additional Requirements

Major Professor
Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

Foreign Language Requirement
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

Residence
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

Dissertation
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

Dissertation Defense
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

Contribution to Scholarship
The department strongly recommends all students submit and present their original work at two academic conferences during the course of their studies. Conferences may be local, regional, national, or international in scope. Additionally, students are highly encouraged to contribute to papers submitted to peer-reviewed academic journals prior to graduation.

Optional Minor (9-12 credits)
Students may also choose to complete a minor outside the School of Education in an academic department, as negotiated with the student’s academic advisor. While not required, the optional minor, comprised of 9-12 credits in addition to the major requirements of the program, may provide students with another academic area of expertise (e.g., sociology, philosophy, history, etc.)

Other Requirements
All students must adhere to all other general requirements of the Urban Educational Doctoral Program pertaining to such issues as residency, preliminary examinations, dissertation proposals and defense, and time limits.

The preliminary qualifying exam will include a section covering the student’s Social Foundations of Education specialization.

A dissertation with the appropriate area of emphasis is required. The dissertation committee must be composed of a minimum of five members of the graduate faculty. The dissertation advisor will be an approved doctoral advisor and a member of the Department of Educational Policy and Community Studies. Two other members must be from the Department of Educational Policy and Community Studies, and one member must be from the minor area.

Exit Requirements
Contingent upon completion of program requirements, the preliminary qualifying examination, and the successful defense of the dissertation, the chair of the Department of Educational Policy and Community Studies must give final approval for the inclusion of Social Foundations of Education upon the student’s transcript.
ENGINEERING AND APPLIED SCIENCE (COLLEGE OF)

UWM's College of Engineering & Applied Science is a dynamic research institution with award-winning faculty, state-of-the-art facilities and established business connections that provide context for our work.

One of only two doctorate-granting institutions in the state of Wisconsin, UW-Milwaukee is recognized by the Carnegie Classification of Institutions of Higher Education as one of the nation’s top research institutions. UWM's location offers unique benefits to engineering students and faculty alike. Seven Fortune 500 companies' international headquarters are located within easy driving distance of the university – as are many leading manufacturers' facilities.

This has real and lasting impact on the UWM engineering community. Collaborative research, corporate partnerships, and real-world work experience (http://uw.edu/engineering/current-students/career-services/co-ops-and-internships/) are an integral part of the UWM experience.

We invite you to learn more about our research as well as our undergraduate and graduate programs. You'll see why UWM is the right choice when you are ready to build your future and change the world.

Mission

To educate students to become creative problem solvers, conduct leading-edge research with global impacts, and act as a catalyst for improved economic development and quality of life in Wisconsin.

Vision

To become a globally prominent engineering education and research institution.

Our location in the major industrial center of the state of Wisconsin offers engineering and computer science students several advantages. Professional engineers and computer scientists from the industrial community share their expertise with the College in the classroom, research laboratory, and on the College’s advisory committees. Our very successful co-op and internship programs give students work experience in their field of study before graduation. Many of the projects that students work on in the classroom are real projects brought to us by local companies. In short, Milwaukee-area companies offer our students a real-world laboratory to gain valuable insights and skills in their major field.

Accreditation

UWM is accredited by the Higher Learning Commission. In addition, the College's bachelor’s programs in civil engineering, computer engineering, electrical engineering, industrial engineering, materials engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET. The computer science program is accredited by the Computing Accreditation Commission of ABET. The biomedical engineering program will be reviewed for accreditation during the 2020-21 academic year.

Departments and Programs

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- Biomedical and Health Informatics, PhD (p. 462)
- Biomedical Engineering (p. 467)
- Biomedical Engineering, BSE (p. 467)
- Civil and Environmental Engineering (p. 471)
- Civil Engineering, BSE (p. 472)
- Environmental Engineering, BSE (p. 476)
- Structural Engineering, Minor (p. 480)
- Computer Engineering, BS (p. 480)
- Computer Science (p. 484)
- Applied Computing, BS (p. 485)
- Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 486)
- Computer Science, BA (p. 488)
- Computer Science, BS (p. 490)
- Computer Science, Minor (p. 494)
- Computer Science, MS (p. 494)
- Web Development, Undergraduate Certificate (p. 496)
- Electrical Engineering (p. 497)
- Electrical Engineering, BSE (p. 498)
- Electrical Engineering, Minor (p. 502)
- Engineering and Applied Science (Graduate Programs) (p. 502)
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- Energy Engineering, Graduate Certificate (p. 504)
- Engineering, MS (p. 505)
- Engineering, MS/Urban Planning, MUP (p. 507)
- Engineering, MS: Biomedical Engineering (p. 508)
- Engineering, MS: Civil Engineering (p. 510)
- Engineering, MS: Electrical and Computer Engineering (p. 511)
- Engineering, MS: Energy Engineering (p. 513)
- Engineering, MS: Engineering Management (p. 515)
- Engineering, MS: Engineering Mechanics (p. 516)
- Engineering, MS: Industrial and Systems Engineering (p. 518)
- Engineering, MS: Manufacturing Engineering (p. 520)
- Engineering, MS: Materials Engineering (p. 522)
- Engineering, MS: Mechanical Engineering (p. 523)
- Engineering, MS: Occupational Biomechanics/Ergonomics (p. 525)
- Engineering, PhD (p. 527)
- Engineering, PhD: Biomedical Engineering (p. 529)
- Engineering, PhD: Civil Engineering (p. 532)
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- Engineering, PhD: Industrial Engineering (p. 539)
- Engineering, PhD: Materials Engineering (p. 541)
- Engineering, PhD: Mechanical Engineering (p. 543)
- Ergonomics, Graduate Certificate (p. 546)
- Industrial and Manufacturing Engineering (p. 546)
- Industrial Engineering, BSE (p. 547)
- Industrial Engineering, Minor (p. 550)
- Integrated BS-MS Degree (p. 551)
- Materials Engineering (p. 552)
Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the necessary information about these requirements and for planning their studies accordingly. Please contact the appropriate department or program office for further information.

Student Organizations

In addition to the wide variety of activities that are available for all UWM students, CEAS students have the opportunity to participate in many organizations relating to their professional interests. Involvement in these organizations is recognized as a valuable component of their professional education.

Organizations

AAO - Aeronautics and Aerospace Organization

AFS - American Foundrymen's Society
ASCE - American Society of Civil Engineers
ASM/TMS - Materials Engineering Society
ASME - American Society of Mechanical Engineers
IEEE - Institute of Electrical and Electronic Engineers
IEEE-CS - Institute of Electrical and Electronic Engineers Computer Society
IIE - Institute of Industrial Engineers
ITE - Institute of Transportation Engineers
NSBE - National Society of Black Engineers
RC - Rocket Club
ROV - Remotely Operated Vehicle Team
SAE - Society of Automotive Engineers
SHPE - Society of Hispanic Professional Engineers
SME - Society of Manufacturing Engineers
SWE - Society of Women Engineers

Professional Fraternity

Triangle

Honor Societies

Pi Tau Sigma
Tau Beta Pi

Co-op and Internship Program

In today's competitive job market, it takes more than a college degree to find employment upon graduation. The Career Services Office in the College provides the link between your education and the real world. This office is dedicated to helping all CEAS students secure engineering or computer science-related work experience before graduation, because related work experience in combination with good academics are the criteria most employers use to select new hires.

The College offers students two ways to gain that experience: internships and co-ops. The principal goals of the programs are to provide career orientation to students and enhance their professional development. All internships and co-ops are paid at a rate commensurate with educational background and experience. For more information, contact the Career Services Office at (414) 229-6960 or ceascareers@uwm.edu.

Contact Information

Office of Student Services
Engineering and Mathematical Sciences Building, E386

Phone: (414) 229-4667
ceas-adv@uwm.edu
## Biomedical and Health Informatics Programs

The PhD in Biomedical and Health Informatics (p. 462) is an interdisciplinary doctoral program offered by UWM through collaboration between several academic units at UWM and the Medical College of Wisconsin. The Program is housed in the UWM Department of Electrical Engineering and Computer Science. It is guided by a Steering Committee consisting of faculty from the academic units participating in the Program.

Biomedical and health informatics is a field that is concerned with the cognitive, information processing, and communication aspects of medicine and healthcare including the information sciences and technology to support these tasks. The field covers the application of information technology in clinical medicine, medical record keeping, medical instrumentation, and healthcare management.

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Paul Auer</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>Nicole Carnegie</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD</td>
<td>University of Washington</td>
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<tr>
<td>Roshan D'Souza</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of California Berkeley</td>
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<tr>
<td>Adam Greenberg</td>
<td>Assistant Professor (College of Letters and Science)</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
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<tr>
<td>Yi Hu</td>
<td>Assistant Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of Texas at Dallas</td>
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<tr>
<td>Chiang-Ching Huang</td>
<td>Associate Professor (Zilber School of Public Health)</td>
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<td>University of Michigan-AnnArbor</td>
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<tr>
<td>Rohit Kate</td>
<td>Assistant Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Chiu-tai Law</td>
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<tr>
<td>Jake Luo</td>
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<td>Amol Mali</td>
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<td>Susan McRoy</td>
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<tr>
<td>Devendra Misra</td>
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<td>Ethan Munson</td>
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<tr>
<td>Derek Nazareth</td>
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<tr>
<td>Timothy Patrick</td>
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<td>PhD</td>
<td>University of Missouri-Columbia</td>
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<td>Mohammad Habib Rahman</td>
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<td>Université de Québec, Canada</td>
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<tr>
<td>Nathan Salowitz</td>
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<td>Stanford University</td>
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<tr>
<td>Mathew Scanlon</td>
<td>Professor (Medical College of MD Wisconsin faculty)</td>
<td>PhD</td>
<td>Loyola Stritch School of Medicine, Chicago</td>
<td></td>
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</tr>
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Biomedical and Health Informatics, PhD

The PhD in Biomedical and Health Informatics is an interdisciplinary doctoral program offered by UWM through collaboration between several academic units at UWM and the Medical College of Wisconsin. The Program is housed in the UWM Department of Electrical Engineering and Computer Science. It is guided by a Steering Committee consisting of faculty from the academic units participating in the Program.

Biomedical and health informatics is a field that is concerned with the cognitive, information processing, and communication aspects of medicine and healthcare including the information sciences and technology to support these tasks. The field covers the application of information technology in clinical medicine, medical record keeping, medical instrumentation, and healthcare management.

The main goal of the PhD program is to prepare graduates to perform advanced research in the discipline and to assume leadership roles in medical and healthcare industries. The degree is philosophically conceptualized as involving several disciplines in a collaborative learning process with the goal of fostering inter-professional interactions and inquiry. This degree will build upon existing graduate programs and research in the participating units. Qualified students with strong academic records in any of these programs will be considered for admission.

Other participating units:
- College of Health Sciences
- College of Nursing
- Lubar School of Business
- School of Information Studies
- Zilber School of Public Health
- The Medical College of Wisconsin

**Requirements**

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Title</th>
<th>Degree</th>
<th>University</th>
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<tbody>
<tr>
<td>Mary Shimoyama</td>
<td>Associate Professor (Medical PhD)</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td></td>
<td>College of Wisconsin faculty</td>
<td></td>
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<tr>
<td>Atish Sinha</td>
<td>Professor (Lubar School of Business)</td>
<td>PhD University of Pittsburgh</td>
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<tr>
<td>Ehsan S. Soofi</td>
<td>Professor (Lubar School of Business)</td>
<td>PhD University of California-Riverside</td>
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<tr>
<td>Yongjin Sung</td>
<td>Assistant Professor (College of Engineering and Applied Science)</td>
<td>PhD Massachusetts Institute of Technology</td>
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<tr>
<td>AkkeNeel Talsma</td>
<td>Associate Professor (College of Nursing)</td>
<td>PhD University of Michigan-Ann Arbor</td>
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<tr>
<td>Weizhong Wang</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD University of California-Riverside</td>
<td></td>
</tr>
<tr>
<td>Charles Welzig</td>
<td>Associate Professor (Medical MD)</td>
<td>Humboldt University, Berlin, Germany</td>
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<tr>
<td></td>
<td>College of Wisconsin faculty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min Wu</td>
<td>Associate Professor (College of Health Sciences)</td>
<td>PhD University of North Carolina at Chapel Hill</td>
<td></td>
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<tr>
<td>Guangwu Xu</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD State University of New York-Buffalo</td>
<td></td>
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<tr>
<td>Alice Fang Yan</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD University of Maryland</td>
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</tr>
<tr>
<td>Zeyun Yu</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD University of Texas-Austin</td>
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</tr>
<tr>
<td>Jun Zhang</td>
<td>Professor (College of Engineering and Applied Science)</td>
<td>PhD Rensselaer Polytechnic Institute</td>
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<tr>
<td>Tian Zhao</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD Purdue University</td>
<td></td>
</tr>
<tr>
<td>Cheng Zheng</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD University of Washington</td>
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</tr>
<tr>
<td>Zhi Zheng</td>
<td>Assistant Professor (College of Engineering and Applied Science)</td>
<td>PhD Vanderbilt University</td>
<td></td>
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</tbody>
</table>
specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet the UWM Graduate School requirements as well as the following to be considered for admission to the program.

Master’s degree in biomedical and health informatics or a related area such as Computer Science, Electrical Engineering, Health Sciences, Business Administration, Nursing; or an MD degree. Exceptionally strong candidates with Bachelor’s degree in a related area will also be considered for admission.

1. At least two letters of recommendation that attest to academic and/or professional qualifications.
2. Scores from the GRE (general) or GMAT or MCAT (test taken within the last five years.)

For applicants who intend to satisfy the English proficiency requirement by submission of test scores, a score of at least 250 on the computer-based (or 600 on the paper-based) Test of English as a Foreign Language (TOEFL) is required. A score of 6.5 on the international English Language Testing Systems (IELTS) examination will be required in lieu of the TOEFL.

Requests for financial support must also be submitted below:

Co Director
Biomedical and Health Informatics Program
College of Engineering and Applied Science
University of Wisconsin-Milwaukee
Milwaukee, WI 53201

**Areas of Concentration**

The PhD program requires a student to follow one of the following six areas of concentration. (At the time of application, each applicant should indicate a preferred area of concentration in their statement of Reasons for Graduate Study.)

**Translational Bioinformatics Track**

The track in Translational Bioinformatics centers on driving the flow of knowledge from “bench to bedside”, bridging the gap between basic and clinical informatics research. This discipline has applications to drug development, genetics research, and the use of animal models to develop new understandings or treatments, which has implications both to basic science and to commercialization.

**Knowledge Based Systems Track**

The Knowledge Based Systems track is designed to train students in the development of techniques to support decision-making in medical practice (including both clinical and administrative decision-making) and customized instruction on health and medical topics for patients and health care providers. Technical areas include decision analysis, expected utility theory and cost-effectiveness analysis, computer-based decision support systems, user modeling and user interface design, intelligent tutoring systems, knowledge representation, structured reporting, and data mining and knowledge discovery.

**Health Services Management & Policy Track**

Health services management and policy research is broad in scope and touches on all of the standard functional business areas (e.g., management, strategy and marketing, finance/economics, management information systems, human resources management) in addition to government health policy/reimbursement/regulation, insurance and other payer mechanisms, dealing with health professionals, and illness/health in individuals and in populations. The track is designed to equip students to deal with both management information and with population health and illness information and research to understand the implications of such information and research, and to transform inferences from that information and research into practical recommendations on the national, state, and local level. By its nature, it is applied to health services settings including hospitals, skilled-nursing facilities, medical group practices, public health agencies, mental health services, managed care organizations, and integrated health networks.

**Health Information Systems Track**

The track in Health Information Systems is designed to explore the role of administrative and clinical information systems in health care organizations. Attention will be directed at the design, implementation, and maintenance of the broad array of computer applications used in the health care industry. An interdisciplinary approach will be taken drawing on expertise from the health professions, management information systems, and library and information science. Curricular content will range from systems analysis and design, system efficacy and management, to e-commerce.

**Medical Imaging and Instrumentation Track**

The track in Medical Imaging and Instrumentation is designed to train students in understanding and developing medical imaging systems and medical electronic instrumentation. The aspects emphasized in this track are medical imaging systems, image processing, computer vision, pattern recognition, medical instrumentation development and optimization, computer modeling, applications of electric and magnetic fields, and wireless communication.

**Public Health Informatics Track**

The Public Health Informatics track is designed to train students in the development of techniques, methods and tools to conduct public health research and to provide public health programs and tools for practical use. Graduates of this track will also be able to provide customized instruction on public health and related biomedical topics for public health workers, the public and others such as those in public health policy who will benefit from public health informatics. Technical areas include databases, tools and techniques for acquiring, processing, warehousing, and analyzing public health data. Other areas of expertise include utility theory and cost-effectiveness analysis, computer-based decision support systems, user modeling and user interface design, intelligent tutoring systems, structured reporting, and data mining.

**Credits and Courses**

Students enrolled in this program must follow all UWM Graduate School requirements and regulations. The minimum requirement for the Ph.D. in Biomedical and Health Informatics will be 58-63 credits beyond the bachelor's degree. Up to 24 credits from a related master's degree may be applied toward the Ph.D.

The curriculum will consist of a common set of core courses for all tracks, required and elective courses for each individual track, and the dissertation. The purpose of the core is to ensure that all graduates of the program share a basic common knowledge in biomedical and health informatics. The purpose of the tracks is to enable the students to develop significant strengths in specific sub-areas within biomedical and health informatics. The courses identified in the curriculum are offered by UWM or MCW and, in some case, by both institutions. Following are descriptions of these components and their corresponding credit requirements.
Core Courses
The core courses provide a comprehensive structure for the foundations needed for all students in biomedical and health informatics irrespective of their special interests. This includes a series of seminars that deal with different aspects of biomedical and health informatics. All students must take the following core courses or must have taken equivalent courses in previous study.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>MCW 13200(A,B)</td>
<td>Medical Informatics, 6 quarter cr</td>
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<tr>
<td>HCA 700</td>
<td>Introduction to Health Care Informatics</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>BMS 701</td>
<td>Human Pathophysiology I</td>
<td></td>
</tr>
<tr>
<td>HCA XXX</td>
<td>Physiology and Disease Informatics</td>
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<tr>
<td>Select the following for four 1-credit semesters</td>
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<tr>
<td>COMPSCI 870</td>
<td>Medical Informatics Seminar (or at MCW)</td>
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<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
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</tr>
<tr>
<td>or BUS ADM 749</td>
<td>Data and Information Management</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>HCA 722</td>
<td>Legal, Ethical and Social Issues in Health Care Informatics</td>
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<tr>
<td>MCW 12202</td>
<td>Medical Ethics (1cr)</td>
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<tr>
<td>MCW 10222</td>
<td>Ethics and Integrity in Science (1cr)</td>
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Knowledge Based Systems Track

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
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<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
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<tr>
<td>COMPSCI 710</td>
<td>Artificial Intelligence</td>
<td>3</td>
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<tr>
<td>or HCA 742</td>
<td>Computational Intelligence in Health Informatics</td>
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<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
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<tr>
<td>or COMPSCI 425</td>
<td>Introduction to Data Mining</td>
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<tr>
<td>COMPSCI 743</td>
<td>Intelligent User Interfaces</td>
<td>3</td>
</tr>
<tr>
<td>or COMPSCI 747</td>
<td>Principles &amp; Practices of User Interface Design</td>
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<tr>
<td>Required Mathematics &amp; Quantitative Methods</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>BUS ADM 795</td>
<td>Seminar-in-Management:</td>
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<td>BUS ADM 995</td>
<td>Doctoral Seminar in Decision Sciences:</td>
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<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
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</tr>
<tr>
<td>IND ENG/OCCTHPY 786</td>
<td>Applied Biostatistics in Ergonomics</td>
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<tr>
<td>MTHSTAT 761</td>
<td>Mathematical Statistics</td>
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<tr>
<td>Probability</td>
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<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
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<tr>
<td>or MATH 771</td>
<td>Theory of Probability</td>
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<td>Track Electives</td>
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<tr>
<td>Computing and Applications</td>
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<tr>
<td>Select 12-15 credits with approval of advisor and steering committee</td>
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<tr>
<td>Quantitative Analysis</td>
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</table>

Select up to 6 credits with approval of advisor and steering committee | 6 |

Dissertation
Select 12 credits from the following (use course from program of major advisor): |

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BUS ADM 997</td>
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<tr>
<td>COMPSCI 998</td>
<td>Doctoral Thesis</td>
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<tr>
<td>ELECENG 998</td>
<td>Doctoral Thesis</td>
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<tr>
<td>HCA 890</td>
<td>Health Care Informatics Research and Thesis</td>
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<tr>
<td>INFOST 998</td>
<td>Doctoral Dissertation</td>
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<td>NURS 997</td>
<td>Doctoral Dissertation</td>
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<td>PH 990</td>
<td>Research and Dissertation</td>
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Health Services Management & Policy Track

<table>
<thead>
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<tr>
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<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
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<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
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<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
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<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
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<tr>
<td>BUSMGMT 727</td>
<td>Health Care Accounting, Law and Ethics</td>
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<tr>
<td>BUS ADM 990</td>
<td>Doctoral Seminar in Strategic Management:</td>
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</tr>
<tr>
<td>BUS ADM 996</td>
<td>Doctoral Seminar in Organizations:</td>
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<tr>
<td>Required Mathematics &amp; Quantitative Methods</td>
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<td>BUS ADM 918</td>
<td>Doctoral Seminar in Behavioral Research Methods in Management</td>
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<tr>
<td>BUS ADM 714</td>
<td>Multivariate Techniques in Management Research</td>
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<td>ECON 513</td>
<td>Introduction to Econometrics</td>
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<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
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<tr>
<td>ECON 710</td>
<td>Applied Econometrics</td>
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<td>Track Electives</td>
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<td>Select 9 credits with approval of advisor and steering committee</td>
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Dissertation
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<tr>
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<td>BUS ADM 997</td>
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<tr>
<td>COMPSCI 998</td>
<td>Doctoral Thesis</td>
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<td>ELECENG 998</td>
<td>Doctoral Thesis</td>
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<td>HCA 890</td>
<td>Health Care Informatics Research and Thesis</td>
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<tr>
<td>INFOST 998</td>
<td>Doctoral Dissertation</td>
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<td>NURS 997</td>
<td>Doctoral Dissertation</td>
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<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
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</table>
### Health Information Systems Track

<table>
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<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or COMPSCI 759</td>
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<tr>
<td>COMPSCI 720</td>
<td>Computational Models of Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>HCA 721</td>
<td>Health Information Technology Procurement</td>
<td>3</td>
</tr>
<tr>
<td>HCA 723</td>
<td>Health Care Systems Applications - Administrative and Clinical</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
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</tbody>
</table>

**Research Methods**
Select one of the following: 3

- IND ENG 716 Engineering Statistical Analysis
- BUS ADM 714 Multivariate Techniques in Management Research
- BUS ADM 918 Doctoral Seminar in Behavioral Research Methods in Management
- BUS ADM 991 MIS Doctoral Seminar II: (Subtitled)
- NURS 882 Qualitative Methods in Health Research
- NURS 883 Quantitative Methods in Health Research

**Track Electives**
Select 12 credits with approval of advisor and steering committee 12

**Dissertation**
Select 12 credits from the following (use course from program of major advisor): 12

- BUS ADM 997 Doctoral Dissertation
- COMPSCI 998 Doctoral Thesis
- ELECENG 998 Doctoral Thesis
- HCA 890 Health Care Informatics Research and Thesis
- INFOST 998 Doctoral Dissertation
- NURS 997 Doctoral Dissertation
- PH 990 Research and Dissertation

**Total Credits** 45

### Medical Imaging & Instrumentation Track

<table>
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<tr>
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<tbody>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
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</tr>
<tr>
<td>ELECENG 439</td>
<td>Introduction to Biomedical Optics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/COMPSCI 712</td>
<td>Image Processing</td>
<td>3</td>
</tr>
<tr>
<td>or ELECENG 716</td>
<td>Tomography: Imaging and Image Reconstruction</td>
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<tr>
<td>ELECENG 737</td>
<td>Medical Imaging Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>or ELECENG 765</td>
<td>Introduction to Fourier Optics and Optical Signal Processing</td>
<td></td>
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</table>

**Track Electives**
Select 21 credits with approval of advisor and steering committee 21

**Dissertation**
Select 12 credits from the following (use course from program of major advisor): 12

- BUS ADM 997 Doctoral Dissertation
- COMPSCI 998 Doctoral Thesis
- ELECENG 998 Doctoral Thesis
- HCA 890 Health Care Informatics Research and Thesis
- INFOST 998 Doctoral Dissertation
- NURS 997 Doctoral Dissertation
- PH 990 Research and Dissertation

**Total Credits** 48

### Public Health Informatics Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
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<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
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<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
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<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
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</tbody>
</table>

**Required Statistics & Quantitative Methods**

- PH 702 Introduction to Biostatistics 3
- PH XXX Seminar in Biostatistics and Bioinformatics 1
- PH 713 Analyzing Observational and Experimental Data 3
- PH XXX Data Management, Visualization, and Advanced Statistical Computing 3

**Track Electives**

- **Computing and Applications**
  Select 6 credits with approval of advisor and steering committee 6
- **Quantitative Analysis**
  Select 6 credits with approval of advisor and steering committee 6

**Dissertation**
Select 12 credits from the following (use course from program of major advisor): 12

- BUS ADM 997 Doctoral Dissertation
- COMPSCI 998 Doctoral Thesis
- ELECENG 998 Doctoral Thesis
- HCA 890 Health Care Informatics Research and Thesis
- INFOST 998 Doctoral Dissertation
- NURS 997 Doctoral Dissertation
- PH 990 Research and Dissertation

**Total Credits** 46

### Translational Bioinformatics Track

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
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</tr>
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<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
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</tr>
<tr>
<td>ELECENG 439</td>
<td>Introduction to Biomedical Optics</td>
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</tr>
<tr>
<td>ELECENG/COMPSCI 712</td>
<td>Image Processing</td>
<td>3</td>
</tr>
<tr>
<td>or ELECENG 716</td>
<td>Tomography: Imaging and Image Reconstruction</td>
<td></td>
</tr>
<tr>
<td>ELECENG 737</td>
<td>Medical Imaging Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>or ELECENG 765</td>
<td>Introduction to Fourier Optics and Optical Signal Processing</td>
<td></td>
</tr>
</tbody>
</table>

**Track Electives**
Select one of the following: 2-3

- BIO SCI 490 Molecular Genetics
- BIO SCI 597 RNA Structure, Function, and Metabolism
MCW 20240 Translational Genetics, 2 cr
Select one of the following: 3
PH XXX Introduction to Bioinformatics, 3 cr
MCW 17201 Bioinformatics I: Introduction to Bioinformatics, 3 cr
MARQ BIIN 6000 Introduction to Bioinformatics, 3 cr
MARQ BIIOL 5201 Genomics and Bioinformatics, 3 cr
Select one of the following: 2-3
PH XXX Translational Bioinformatics, 3 cr
Or both of the following:
MCW 20100 Introduction to Clinical and Translational Research, 1 cr
and MCW 20261 Clinical Trial Design, 1 cr
Select one of the following: 3
COMPSCI 425 Introduction to Data Mining
ELECENG/COMPSCI 711 Introduction to Machine Learning
BUS ADM 741 Web Mining and Analytics
MARQ ENMA 6060 Innovation and Technology, 3 cr
Select one of the following: 3
HCA 760 Biomedical and Healthcare Terminology and Ontology
BUS ADM 814 Enterprise Knowledge & Semantic Management
COMPSCI 810 Knowledge Representation
InfoSt 714 Metadata, 3cr
Select one of the following: 2-3
HCA 723 Health Care Systems Applications - Administrative and Clinical
MCW 14230 Product Development of Medical Devices, 2 cr
Quantitative Methods
Select 9 credits from the following: 9
NURS 883 Quantitative Methods in Health Research
MATH 771 Theory of Probability
PH 702 Introduction to Biostatistics
PH XXX Statistical Genetics and Genetic Epidemiology, 3cr
PH XXX Applied Quantitative Methods for Studying Population Health and Health Disparities, 3 cr
Select a maximum of one of the following:
MCW 11200 Introduction to Epidemiology, 3 cr
PH 704 Principles and Methods of Epidemiology
Select a maximum of one of the following:
PH 711 Intermediate Biostatistics
MCW 04201 Biostatistics II, 3cr
Track Electives
Select 9 credits with approval of advisor and steering committee 9
Dissertation
Select 12 credits from the following (use course from program of major advisor): 12
BUS ADM 997 Doctoral Dissertation
COMPSCI 998 Doctoral Dissertation
ELECENG 998 Doctoral Dissertation
HCA 890 Health Care Informatics Research and Thesis
INFOST 998 Doctoral Dissertation
NURS 997 Doctoral Dissertation
PH 990 Research and Dissertation

Total Credits 45-48

Additional Requirements

Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise and approve the program of study before registering for courses. The Biomedical and Health Informatics Steering Committee will assign the incoming student to a temporary Program Advisor at the time of admission. Prior to the completion of 12 credit (9 credits for a part-time student), the student must select a major professor who will be the student’s dissertation advisor. The student, in consultation with the major professor, develops a program of study which is submitted to the Biomedical and Health Informatics Steering Committee for approval. For subsequent changes, the student must file a revised program of study for approval.

Doctoral Program Committee
The Doctoral Program Committee is proposed by the Major Professor in consultation with the student by the end of the student’s first year of enrollment. The Program Committee, subject to the approval of the Biomedical and Health Informatics Steering Committee, shall consist of the Major Professor and at least four graduate faculty members, including at least one with health care and/or medical background, and one with informatics background.

Residence
The student must meet Graduate School residence requirements.

Qualifying Examination
A qualifying examination must be taken to determine whether the student is qualified to perform advanced doctoral level work in biomedical and health informatics. This examination is administered by the steering committee and must be taken prior to the completion of 21 credits of coursework in the program.

Doctoral Preliminary Examination
The student is also required to take a preliminary examination after all the coursework is completed and prior to the advancement of candidacy to determine the student’s preparation for independent research. Prior to the examination, the student must present a proposal for a doctoral dissertation. The preliminary examination may cover both graduate course material and the dissertation proposal. The preliminary examination must be successfully completed within five years of initial enrollment.

Dissertation
The candidate must complete a dissertation presenting independent original research that adds to the existing body of knowledge in biomedical and health informatics. It should be of such caliber that warrants publication in respected journals.
Dissertation Defense
The final oral examination will be an oral defense of the dissertation but may also cover the general field of the primary area of study. The examination may not be taken until all other degree requirements are satisfied. A majority of the examination committee members must approve the dissertation in order for the student to pass. The final oral examination must be taken within five years after passing the preliminary examination. Candidates who exceed this time limit may be required to retake the preliminary examination and be admitted to candidacy a second time.

Time Limit
All components of the PhD program must be completed within 10 years of matriculation.

Biomedical Engineering
Biomedical engineers apply mathematics, science, and engineering knowledge to solve healthcare-related problems that improve quality of life and reduce the cost of healthcare to society. They design assistive, diagnostic, and therapeutic tools, in collaboration with healthcare professionals. They work in research institutions, clinics, and industry.

According to the United States Bureau of Labor Statistics, employment of biomedical engineers is projected to grow 23 percent from 2014 to 2024, much faster than the average for all occupations. Growing technology and its application to medical equipment and devices, along with an aging population, will increase demand for the work of biomedical engineers.

Programs
- Biomedical Engineering, BSE (p. 467)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mahsa Dabagh</td>
<td>Visiting Assistant Professor</td>
<td>PhD</td>
<td>Lappeenranta University of Technology</td>
<td></td>
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</tr>
<tr>
<td>Ranjan Dash</td>
<td>Adjunct Associate Professor (Medical College of Wisconsin faculty)</td>
<td>PhD</td>
<td>Indian Institute of Technology</td>
<td></td>
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</tr>
<tr>
<td>Guilherme Garcia</td>
<td>Adjunct Associate Professor (Medical College of Wisconsin faculty)</td>
<td>PhD</td>
<td>Universidade Federal de Minas Gerais, Brazil</td>
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<tr>
<td>Veysi Malkoc</td>
<td>Visiting Assistant Professor</td>
<td>PhD</td>
<td>The Ohio State University</td>
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<tr>
<td>Devendra Misra</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
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</tr>
<tr>
<td>Priyatha Premnath</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Ryerson University</td>
<td></td>
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</tr>
<tr>
<td>Jacob Rammer</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Marquette University</td>
<td></td>
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<tr>
<td>Pradeep Rohatgi</td>
<td>UWM Distinguished Professor</td>
<td>ScD</td>
<td>Massachusetts Institute of Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brooke Slavens</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Marquette University</td>
<td></td>
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</tr>
</tbody>
</table>

Biomedical Engineering, BSE

Biomedical engineering (BME) students at UWM will learn to translate engineering principles into clinical methods. Students will also engage in collaborative and interdisciplinary research projects with labs in the College of Engineering & Applied Science, College of Letters & Science, College of Health Sciences, School of Nursing, School of Public Health, and with local industry.

The BME undergraduate program emphasizes engineering design in preparation for employment in biomedical industries or launching startups in this fast-growing field. Freshmen and sophomores take a core curriculum that provides a foundation of engineering principles and tools, software application, anatomy and physiology, and communication skills. Juniors take courses on sensors and actuators, biomedical signal processing and medical devices. Seniors also work on capstone design projects and the Product Realization course in multidisciplinary teams. A wide variety of elective courses allow juniors and seniors to specialize in the area of their choice.

Current focus areas include:
- Assistive Technology
- Biomechanics
- Medical Imaging
- Medical Instrumentation
- Rehabilitation Engineering

Key aspects of the undergraduate program include:
- Design projects, throughout the curriculum
- Hands-on laboratories
- Flexibility in biomedical engineering with depth through specialization areas
- Industry cooperatives/internship opportunities
- Research opportunities in world-class labs that make UWM one of the nation’s top research universities (rated R1 by the Carnegie Classification of Institutions of Higher Education); the only one in southeastern Wisconsin

Career Paths
Biomedical engineers work with medical scientists, other medical researchers, and manufacturers to address a wide range of injuries and
physical disabilities. Their ability to work on different activities with other professionals is enlarging the range of applications for biomedical products and services, particularly in healthcare.

- Clinical or Field Engineer
- Staff Engineer
- Manufacturing Engineer
- Researcher
- Quality Engineer
- Sales Engineer

**New Freshmen**

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

**Transfer Students**

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

**Admission to the Major**

Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at any time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

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**Biomedical Engineering Curriculum**

The minimum number of credits required to complete the Bachelor of Science in Biomedical Engineering is 120. Students who need background preparation courses in math, English, and foreign language may need additional credits. Students must maintain an average GPA of at least 2.0 on all work attempted at the University and in all courses offered by the College. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Students majoring in Biomedical Engineering must maintain an average GPA of at least 2.0 in all 300-level required major courses. Transferable courses will be included as appropriate. Advancement to major status is required for graduation. Programs may impose major status as a prerequisite for courses numbered 200 or above.

**Courses required by the major may be repeated only once. No more than two courses may be repeated.**

**Code** | **Title** | **Credits**
--- | --- | ---

**Engineering Core - 26 credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BME 101</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
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<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>4</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>MECHE 301</td>
<td>Computational Tools for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>MECHE 301</td>
<td>Basic Engineering Thermodynamics</td>
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**Major Requirements - 38 credits**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
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<tr>
<td>BME 302</td>
<td>Analysis and Modeling of Dynamic Systems</td>
<td>4</td>
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<tr>
<td>BME 305</td>
<td>Introduction to Engineering Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>BME 310</td>
<td>Biomedical Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>BME 320</td>
<td>Engineering of Biomedical Devices I</td>
<td>4</td>
</tr>
<tr>
<td>BME 325</td>
<td>Engineering of Biomedical Devices II</td>
<td>3</td>
</tr>
<tr>
<td>BME 385</td>
<td>Introduction to Biomaterials</td>
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<td>BME 495</td>
<td>Biomedical Instrumentation Laboratory</td>
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<td>BME 595</td>
<td>Capstone Design Project</td>
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**Mathematics Requirement - 16 credits**

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<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
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<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
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**Physics Requirement - 10 credits**

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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
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**Technical Electives - 15 credits**

Select 15 credits from the approved technical electives list below.
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
</tr>
<tr>
<td>BIO SCI 354</td>
<td>Introduction to Neuroscience I: From Neuron to Brain</td>
</tr>
<tr>
<td>BIO SCI 355</td>
<td>Introduction to Neuroscience II: From Brain to Behavior</td>
</tr>
<tr>
<td>BME 585</td>
<td>Advanced Biomaterials</td>
</tr>
<tr>
<td>BME 599</td>
<td>Senior Thesis</td>
</tr>
<tr>
<td>BME 690</td>
<td>Topics in Biomedical Engineering:</td>
</tr>
<tr>
<td>BME 699</td>
<td>Independent Study</td>
</tr>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period</td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad:</td>
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<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
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<tr>
<td>ELECENG 410</td>
<td>Digital Signal Processing</td>
</tr>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
</tr>
<tr>
<td>IND ENG 584</td>
<td>Biodynamics of Human Motion</td>
</tr>
<tr>
<td>MECHENG 320</td>
<td>Introduction to Fluid Mechanics</td>
</tr>
<tr>
<td>MECHENG 370</td>
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<tr>
<td>MECHENG 474</td>
<td>Introduction to Control Systems</td>
</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
</tr>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
</tr>
<tr>
<td>PHYSICS 305</td>
<td>Medical Physics</td>
</tr>
<tr>
<td>PHYSICS 306</td>
<td>Introduction to Biophysics</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
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**GER Distribution Requirement - 15 credits**

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<tr>
<td>Arts</td>
<td>3 credits</td>
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<tr>
<td>Humanities</td>
<td>3 credits</td>
</tr>
<tr>
<td>Social Science</td>
<td>6 credits</td>
</tr>
<tr>
<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
</tr>
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</table>

**Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement**

**English Composition Requirement**

The English Composition requirement is satisfied by:

- Earning a satisfactory score on the English placement test or other appropriate test, as determined by the English Department; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course

**Foreign Language Requirement**

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

**Total Credits**

120

1. MATH 221 and MATH 222 may substitute for MATH 231, MATH 232, and MATH 233.
2. The following courses are approved technical electives, but are currently inactive: ELECENG 437, ELECENG 438, ELECENG 539.

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.
Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Honors in the Major

Students in Biomedical Engineering who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all CEAS courses counting toward the Biomedical Engineering major;
3. A 3.500 GPA over all upper-division (300 level and higher) BME courses; and
4. At least one of the following:
   a. Successful completion of 3 credits of research experience via senior thesis (BME 599) and/or an approved independent study (BME 699).
   b. Participation in the Accelerated MS program with successful completion of 6 credits in approved courses for the Biomedical Engineering concentration in the MS in Engineering Program.

Students who believe they may qualify for honors in Biomedical Engineering should apply to the College of Engineering & Applied Science during their last semester of study.

Honors in the College of Engineering and Applied Science

Dean's Honor List

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.
Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Civil and Environmental Engineering
Civil engineering is a profession that deals with the infrastructure of society. Civil engineers design bridges, buildings, and other structures; develop and design water resources, waste treatment, and environmental management facilities; plan and design highway and transportation systems; and design foundations, earth and rock structures, and tunnels. Students completing a civil engineering program have an opportunity for professional employment with industry; utilities; consulting firms; contractors; local, state, and federal government agencies; research laboratories; and academia.

Mission Statement
The mission of the UWM undergraduate Civil Engineering Program is to educate students to become civil engineering professionals who plan, design, build, and manage the infrastructure needed for a modern urban society and the environment.

Programs
- Civil Engineering, BSE (p. 472)
- Environmental Engineering, BSE (p. 476)
- Structural Engineering, Minor (p. 480)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
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<tbody>
<tr>
<td>Edward A. Beimborn</td>
<td>Professor</td>
<td>PhD, PE</td>
<td>University of Iowa</td>
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</tr>
<tr>
<td>Hector R. Bravo</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>University of Nebraska</td>
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</tr>
<tr>
<td>Erik R. Christensen</td>
<td>Professor</td>
<td>PhD, PE</td>
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<tr>
<td>Rani El-Hajjar</td>
<td>Associate Professor</td>
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<tr>
<td>Al Ghorbanpoor</td>
<td>Professor</td>
<td>PhD, PE</td>
<td>University of Boulder, Colorado</td>
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<tr>
<td>Andrew Graettinger</td>
<td>Professor, Associate Dean for Research</td>
<td>PhD</td>
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<td>Sam Helwany</td>
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<td>Alan J. Horowitz</td>
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<td>Kwang K. Lee</td>
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<tr>
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<td>Yue Liu</td>
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</tbody>
</table>
Civil Engineering, BSE

Civil Engineering is a profession that deals with the infrastructure of society and impacts your everyday life. From the roads and bridges you use every day to the drinking water that comes out of your tap at home, civil engineers work to develop safe, efficient and sustainable ways to continually improve our infrastructure.

Concentrations
- Geotechnical engineering
- Structural engineering
- Transportation and municipal engineering
- Water resources and environmental engineering

Research
Work with faculty engaged in leading-edge research in areas such as:
- Social and environmental impacts of transportation development
- Flexible pavement design
- Fatigue and fracture mechanics
- Hydrodynamic modeling
- Environmental fluid mechanics
- Application of nanomaterials in construction

Career Paths
Civil engineers work in all levels of government and throughout the private sector.
- Structural Designer
- Construction Manager
- City Engineer
- Stormwater Manager
- Foundation Engineer
- Resident Engineer

Accreditation
The Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET: https://www.abet.org (https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C6375ad43fb2946154c608d68a20d99%7C0bca7ac3fcb64ef89eb66de97603cf21%7C0%7C0%7C637374329251667446&data=H0cBF1xSAAndPyk

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major
Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.
Civil Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in civil engineering is 127. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 280</td>
<td>Computer Based Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IND ENG 111</td>
<td>Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 112</td>
<td>Engineering Drawing &amp; Computer Aided Design/Drafting</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td></td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 320</td>
<td>Introduction to Fluid Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 250</td>
<td>Engineering Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 335</td>
<td>Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 372</td>
<td>Introduction to Structural Design</td>
<td>4</td>
</tr>
<tr>
<td>CIV ENG 411</td>
<td>Engineering Principles of Water Resources Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 413</td>
<td>Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 490</td>
<td>Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 494</td>
<td>Principles of Civil Engineering Design</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENG 495</td>
<td>Senior Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

Chemistry Requirement

One of the following sequences must be completed: 5-10

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105</td>
<td>General Chemistry for Engineering (suggested)</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Physics Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>8</td>
</tr>
<tr>
<td>&amp; PHYSICS 210</td>
<td>and Physics II (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Other Natural Sciences

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any GEO SCI course 300 level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any BIO SCI course 150 level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any ATM SCI course 200 level or above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GER Distribution Requirement

Select 3 credits in Art 3
Select 3 credits in Humanities 3
Select 6 credits of Social Science 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
<td>3</td>
</tr>
</tbody>
</table>

Cultural Diversity - One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives

Select 3 credits of free electives 3

English Composition Requirement

Select one of the following: 0-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 110</td>
<td>Foundation Engineering</td>
<td></td>
</tr>
</tbody>
</table>

Technical Electives

A minimum of 21 technical elective credits are required. At least 15 credits are required from Group A Technical Electives. Normally a minimum of 12 credits will be taken in an area of concentration.

Areas of Concentration

The Civil & Environmental Engineering Department offers numerous elective courses that allow students to work in one of four areas of concentration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 456</td>
<td>Foundation Engineering</td>
<td></td>
</tr>
</tbody>
</table>

And at least three of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 360</td>
<td>Introduction to Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 412</td>
<td>Applied Hydrology</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td>Introduction to Finite Elements</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 598</td>
<td>Pavement Analysis and Design</td>
<td></td>
</tr>
</tbody>
</table>

Municipal and Transportation Engineering

Students in this concentration should complete at least three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 590</td>
<td>Urban Transportation Planning</td>
<td></td>
</tr>
</tbody>
</table>
CIV ENG 592  Traffic Control
CIV ENG 594  Physical Planning and Municipal Engineering
CIV ENG 596  Transportation Facilities Design
CIV ENG 598  Pavement Analysis and Design
CIV ENG 610  Introduction to Water and Sewage Treatment

**Structural Engineering**

Students in this concentration should complete:

- CIV ENG 360  Introduction to Structural Analysis
- CIV ENG 463  Introduction to Finite Elements
- CIV ENG 571  Design of Concrete Structures
- CIV ENG 572  Design of Steel Structures

And at least two of the following courses:

- CIV ENG 431  Materials of Construction
- CIV ENG 456  Foundation Engineering
- CIV ENG 466  Mechanics of Composite Materials
- CIV ENG 560  Intermediate Structural Analysis
- CIV ENG 573  Design of Masonry Structures
- CIV ENG 574  Design of Prestressed Concrete Structures
- CIV ENG 579  Earthquake Engineering

**Water Resources and Environmental Engineering**

Students in this concentration should complete at least three of the following:

- CIV ENG 412  Applied Hydrology
- CIV ENG 511  Water Supply and Sewerage
- CIV ENG 521  Water Quality Assessment
- CIV ENG 610  Introduction to Water and Sewage Treatment

**Technical Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Group A Technical Electives - Take 15 to 21 credits of Group A electives. All non-required Civ Eng courses 400-699 are Group A Technical Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV ENG 311</td>
<td>Introduction to Energy, Environment and Sustainability</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 360</td>
<td>Introduction to Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 412</td>
<td>Applied Hydrology</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 431</td>
<td>Materials of Construction</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 456</td>
<td>Foundation Engineering</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td>Introduction to Finite Elements</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 466</td>
<td>Mechanics of Composite Materials</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 480</td>
<td>Software Applications for Civil Engineering</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 502</td>
<td>Experimental Stress Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 511</td>
<td>Water Supply and Sewerage</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 521</td>
<td>Water Quality Assessment</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 555</td>
<td>Sustainable Construction Materials and Technologies</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 560</td>
<td>Intermediate Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 571</td>
<td>Design of Concrete Structures</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 572</td>
<td>Design of Steel Structures</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 573</td>
<td>Design of Masonry Structures</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 574</td>
<td>Design of Prestressed Concrete Structures</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 579</td>
<td>Earthquake Engineering</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 592</td>
<td>Traffic Control</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 594</td>
<td>Physical Planning and Municipal Engineering</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 596</td>
<td>Transportation Facilities Design</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 598</td>
<td>Pavement Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 610</td>
<td>Introduction to Water and Sewage Treatment</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 616</td>
<td>Computational Hydraulics and Environmental Flows</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 691</td>
<td>Topics in Civil Engineering</td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>1</td>
</tr>
<tr>
<td>Any Chemistry course 200-level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td></td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period 2</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td></td>
</tr>
<tr>
<td>IND ENG 455</td>
<td>Operations Research I</td>
<td></td>
</tr>
<tr>
<td>IND ENG 465</td>
<td>Operations Research II</td>
<td></td>
</tr>
<tr>
<td>IND ENG 475</td>
<td>Simulation Methodology</td>
<td></td>
</tr>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td></td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>Any Mathematics course 400-level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATLENG 431</td>
<td>Welding Engineering</td>
<td></td>
</tr>
<tr>
<td>MECHE 321</td>
<td>Basic Heat Transfer</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>Any Physics course 300-level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URBPLAN 591</td>
<td>Introduction to Urban Geographic Information Systems (GIS) in Planning</td>
<td></td>
</tr>
</tbody>
</table>

1. Students who take CHEM 104 to satisfy 3 credits of Group B Electives.
2. Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College.
Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with their advisors to plan each semester’s list of classes. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.
In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

**Dean's Honor List**
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

**Joint Programs with Wisconsin Technical Colleges**

**Gateway Technical College**
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

**Milwaukee Area Technical College**
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

**Waukesha County Technical College**
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

**Environmental Engineering, BSE**

**Environmental Engineering at UWM**
Environmental engineers use the principles of engineering, soil science, biology and chemistry to develop solutions to environmental problems. Environmental engineers work to improve drinking water supply, public health, recycling, sustainability, to control water and air pollution, and manage waste.

**Areas of Specialization**
- Water and wastewater treatment
- Air quality
- Environmental remediation
- Environmental technology
- Energy and sustainability
- Water resources management
- Environmental health

**Career Paths**
- Engineering services
- Consulting, scientific and management services
- Environmental engineering in all levels of government and throughout the private sector
- Water project manager
- Environmental health and safety engineer

**New Freshmen**
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

**Transfer Students**
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average...
on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major
Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Environmental Engineering Curriculum
The minimum number of credits required to complete the Bachelor of Science in Environmental Engineering with a major in environmental engineering is 125. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

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Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.
The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation.

Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

**Dean's Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

**Joint Programs with Wisconsin Technical Colleges**

**Gateway Technical College**

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

**Milwaukee Area Technical College**

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

**Waukesha County Technical College**

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.
Structural Engineering, Minor

Structural engineers focus on the design and physical integrity of buildings and other large structures, assuring they are safe and stable. They frequently work with architects and contractors. In addition to new construction, they often inspect and design plans for maintenance or renovation of existing structures.

The minor in structural engineering is designed especially for students in the following majors:

- Architecture
- Mechanical Engineering
- Industrial and Manufacturing Engineering
- Materials
- Geology
- Physics

This minor is not available to civil engineering majors.

Requirements

The 19-credit minor requires the following:

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<td>CIV ENG 372</td>
<td>Introduction to Structural Design</td>
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<tr>
<td>CIV ENG 571</td>
<td>Design of Concrete Structures</td>
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<td>or CIV ENG 572</td>
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Electives

Select two electives (see below) 6

Total Credits 19

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<td>CIV ENG 431</td>
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<td>CIV ENG 456</td>
<td>Foundation Engineering</td>
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<td>CIV ENG 463</td>
<td>Introduction to Finite Elements</td>
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<td>CIV ENG 502</td>
<td>Experimental Stress Analysis</td>
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<td>CIV ENG 560</td>
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<tr>
<td>CIV ENG 573</td>
<td>Design of Masonry Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 574</td>
<td>Design of Prestressed Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 579</td>
<td>Earthquake Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667, EMS Room E386.

Computer Engineering, BS

The Computer Engineering major is offered through the Electrical Engineering and Computer Science departments at UWM. Computer engineering pertains to the design, implementation and maintenance of hardware and software components of computers and computer-controlled equipment.

Our program provides students with a broad and strong technical background in the field. It also helps students develop a solid grounding in computing, mathematics and engineering. Students will learn to apply these theoretical principles to design hardware, software, networks, and computerized equipment for diverse application domains.

Accreditation

The Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET. https://www.abet.org (https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C%7Bcbca7ac3fcb64efdb9e6d6de97603cf21%7C0%7C0%7C63736937031393544ad%2Fz8V8KR7ONCyAdV22g40pM9w%3D&reserved=0).

New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Admission to the Major

Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.

4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.

5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

**Computer Engineering Curriculum**

The minimum number of credits required to complete the Bachelor of Science in Computer Engineering is 120.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
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</table>

**Major Requirements - 51 Credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 337</td>
<td>System Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 361</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 395</td>
<td>Social, Professional, and Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>4</td>
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<tr>
<td>ELECENG 310</td>
<td>Signals and Systems</td>
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<tr>
<td>ELECENG 330</td>
<td>Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3</td>
</tr>
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</table>

**Mathematics Requirement - 16 Credits**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

**Chemistry or Biology Requirement - 4-5 Credits**

Select one of the following:

- CHEM 105 General Chemistry for Engineering
- CHEM 102 General Chemistry
- BIO SCI 150 Foundations of Biological Sciences I
- BIO SCI 202 Anatomy and Physiology I

**Physics Requirement - 8 Credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>8</td>
</tr>
<tr>
<td>&amp; PHYSICS 210</td>
<td>and Physics II (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

**Technical Electives - 16 Credits**

- COMPSCI 315 Introduction to Computer Organization and Assembly Language Programming
- COMPSCI 318 Topics in Discrete Mathematics
- COMPSCI 411 Machine Learning and Applications
- COMPSCI 417 Introduction to the Theory of Computation
- COMPSCI 422 Introduction to Artificial Intelligence
- COMPSCI 423 Introduction to Natural Language Processing
- COMPSCI 425 Introduction to Data Mining
- COMPSCI 431 Programming Languages Concepts
- COMPSCI 443 Intelligent User Interfaces and Usability Assessment
- COMPSCI 459 Fundamentals of Computer Graphics
- COMPSCI 469 Introduction to Computer Security
- COMPSCI 511 Symbolic Logic
- COMPSCI 522 Computer Game Design
- COMPSCI 530 Computer Networks Laboratory
- COMPSCI 536 Software Engineering
- COMPSCI 545 FPGA Embedded CPUs & Firmware Development
- COMPSCI 547 User-Centered Interaction Design
- COMPSCI 557 Introduction to Database Systems
- COMPSCI 654 Introduction to Compilers
- COMPSCI 655 Compiler Implementation Laboratory
- COMPSCI 657 Topics in Computer Science
- COMPSCI 699 Independent Study
- ELECENG 335 Electronics II
- ELECENG 361 Electromagnetic Fields
- ELECENG 362 Electromechanical Energy Conversion
- ELECENG 410 Digital Signal Processing
- ELECENG 420 Random Signals and Systems
- ELECENG 421 Communication Systems
- ELECENG 430 Energy Modeling
- ELECENG 436 Introduction to Medical Instrumentation
- ELECENG 437 Introduction to Biomedical Imaging
- ELECENG 439 Introduction to Biomedical Optics
- ELECENG 451 Introduction to VLSI Design
- ELECENG 461 Microwave Engineering
- ELECENG 462 Antenna Theory
- ELECENG 464 Fundamentals of Photonics
- ELECENG 465 Broadband Optical Networks
- ELECENG 474 Introduction to Control Systems
- ELECENG 482 Introduction to Nanoelectronics
- ELECENG 490 Topics in Electrical Engineering
- ELECENG 541 Integrated Circuits and Systems
- ELECENG 545 FPGA Embedded CPUs & Firmware Development
- ELECENG 562 Telecommunication Circuits
- ELECENG 568 Applications of Digital Signal Processing

Group A Technical Electives - Select 9 to 12 credits from the following list. All COMPSCI and ELECENG courses numbered 300-699 that are not explicitly listed as Engineering Core, Major, Group B or Group C
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
</tr>
<tr>
<td>ELECENG 574</td>
<td>Intermediate Control Systems</td>
</tr>
<tr>
<td>ELECENG 575</td>
<td>Analysis of Electric Machines and Motor Drives</td>
</tr>
<tr>
<td>ELECENG 588</td>
<td>Fundamentals of Nanotechnology</td>
</tr>
<tr>
<td>ELECENG 699</td>
<td>Independent Study</td>
</tr>
<tr>
<td>IND ENG 475</td>
<td>Simulation Methodology</td>
</tr>
<tr>
<td>IND ENG 572</td>
<td>Reliability Engineering</td>
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</tbody>
</table>

**Foreign Language Requirement**
Select one of the following:
- English Composition Requirement
  - must also satisfy UWM Cultural Diversity Requirement
- Cultural Diversity - Arts, Humanities, or Social Science course

**GER Distribution Requirement - 15 Credits**

<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Group A</strong></td>
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<tr>
<td></td>
<td>ELECENG 310</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 206</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MATH 221, MATH 222</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or Biology Requirement</td>
<td></td>
</tr>
</tbody>
</table>

**Group B Technical Electives - 4 credits**
- COMPSCI 595 Capstone Project
- or ELECENG 595 Capstone Design Project

**Group C Technical Electives - Select 0 to 3 credits from the following list**
- BIO SCI 150 Foundations of Biological Sciences I
- BIO SCI 152 Foundations of Biological Sciences II
- BUS ADM 292 Introduction to Entrepreneurship and Small Business Formation
- BUS ADM 447 Entrepreneurship
- COMPSCI 481 Server-side Internet Programming
- COMPSCI 482 Rich Internet Applications
- COMPSCI 581 Web Languages and Standards
- COMPSCI 658 Topics in Applied Computing
- EAS 1 Engineering Co-op Work Period
- EAS 497 Study Abroad:
- ELECENG 471 Electric Power Systems
- ELECENG 472 Introduction to Wind Energy
- ELECENG 481 Electronic Materials
- ENGLISH 206 Technical Writing
- IND ENG 360 Engineering Economic Analysis
- MATLENG 481 Electronic Materials
- MECHENG 301 Basic Engineering Thermodynamics
- MECHENG 321 Basic Heat Transfer
- MECHENG 542 Introduction to Technology Entrepreneurship
- MECHENG 543 Introduction to Technology Management and Innovation

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.
Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation.

Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Honors in the College of Engineering and Applied Science

Dean’s Honor List

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.
Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges
Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program.

For more information, contact the Office of Student Services at (414) 229-4667.

Computer Science
The discipline of computer science pertains to the study and design of computer systems, hardware and software, computing techniques, and underlying theory. Our program provides a student with a broad technical background in computer science. It is a flexible program providing breadth and permitting a student to develop strengths in selected areas within computer science, as well as in related areas such as electrical engineering, mathematics, or business, depending on a student's interests. Technical electives available in the Computer Science major span courses in a broad spectrum of areas such as Networks, Computer Security, Artificial Intelligence, and Database Systems.

Mission Statement
The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Programs
• Applied Computing, BS (p. 485)
• Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 486)
• Computer Science, BA (p. 488)
• Computer Science, BS (p. 490)
• Computer Science, Minor (p. 494)
• Computer Science, MS (p. 494)
• Web Development, Undergraduate Certificate (p. 496)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Brian Armstrong</td>
<td>Professor, Co-Chair</td>
<td>PhD</td>
<td>Stanford University</td>
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<tr>
<td>John T. Boyland</td>
<td>Professor, Co-Chair</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
<td></td>
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</tr>
<tr>
<td>Christine T. Cheng</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td></td>
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<tr>
<td>Robert Cuzner</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>George I. Davida</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Adrian Dumitrescu</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers, The State University of New Jersey</td>
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<tr>
<td>Mukul Goyal</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
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<tr>
<td>George W. Hanson</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
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<td>Seyed Hosseini</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
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<tr>
<td>Yi Hu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Dallas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles E. Kahn Jr</td>
<td>Adjunct Professor</td>
<td>MD</td>
<td>University of Illinois at Chicago</td>
<td></td>
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<tr>
<td>Nikoal A. Koukin</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Nebraska-Lincoln</td>
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<td>Robert J. Krueger</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Chiu T. Law</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
<td></td>
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<tr>
<td>Leonard P. Levine</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Amol D. Mali</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
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<tr>
<td>David McClanahan</td>
<td>Faculty Associate</td>
<td>MSEE</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Susan McRoy</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Toronto</td>
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</tr>
</tbody>
</table>
The B.S. in Applied Computing is a fully online 21-course, 61-credit undergraduate program.

As technology continues to expand into every field and industry, from the environment to education to politics, the market for skilled hands-on technicians grows increasingly competitive. The Bachelor of Science in Applied Computing was designed to produce graduates who can perform programming, software engineering, graphic applications, networking, and operating systems management in a variety of environments, while at the same time promoting power skills such as business communications, ethics, and project management.

The applied nature of the degree implies that graduates will have the competencies to solve real-world business problems through the application of technology. Its curriculum puts a deeper focus on fundamental computer science, software engineering, tech security issues, computing solutions for business problems, and data management. A poll of industry representatives indicates that they see a skills gap in computer and information technology related positions which the multidisciplinary focus of this degree would fill.

Accreditation
The UW Bachelor of Science in Applied Computing program is approved by the University of Wisconsin Board of Regents and approved by the Higher Learning Commission (http://www.ncahlc.org/).

Admissions Process and Requirements
A successful applicant will have:

- A minimum combined grade point average of 2.0 for college credits taken;
- About 60 transferable college credits or an associate degree from an accredited university;
- prerequisite work in college algebra;
- completed online application for undergraduate study; and
- transcripts sent directly from previous institutions to UWM.

Tuition, Fees, and Financial Aid
Tuition is $495 per credit or $30,195 total for 61 credits. Textbooks are purchased separately and are not included in tuition. Students who take at least six credits each term may be eligible for financial assistance.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APC 300</td>
<td>Programming 1</td>
<td>3</td>
</tr>
<tr>
<td>APC 310</td>
<td>Math for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>APC 320</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>APC 330</td>
<td>Technical and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>APC 340</td>
<td>Legal and Ethical Responsibilities of the IT Professional</td>
<td>3</td>
</tr>
<tr>
<td>APC 350</td>
<td>Programming 2</td>
<td>3</td>
</tr>
<tr>
<td>APC 360</td>
<td>Database Management 1</td>
<td>3</td>
</tr>
<tr>
<td>APC 370</td>
<td>System Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>APC 380</td>
<td>Project Management Techniques</td>
<td>3</td>
</tr>
<tr>
<td>APC 390</td>
<td>Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>APC 400</td>
<td>Applied Communication Networks</td>
<td>3</td>
</tr>
<tr>
<td>APC 410</td>
<td>Database Management 2</td>
<td>3</td>
</tr>
<tr>
<td>APC 420</td>
<td>Computer Security 1</td>
<td>3</td>
</tr>
<tr>
<td>APC 440</td>
<td>Web Development</td>
<td>3</td>
</tr>
<tr>
<td>APC 450</td>
<td>Operating Systems Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>APC 470</td>
<td>IS Strategy and Management</td>
<td>3</td>
</tr>
<tr>
<td>APC 480</td>
<td>Computer Security 2</td>
<td>3</td>
</tr>
<tr>
<td>APC 490</td>
<td>Capstone Project Preparation</td>
<td>1</td>
</tr>
<tr>
<td>APC 495</td>
<td>Capstone Project</td>
<td>3</td>
</tr>
</tbody>
</table>
Honors in the College of Engineering and Applied Science

Dean's Honor List
GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Phone: 1-877-895-3276
learn@uwex.edu

Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science)

The Applied Mathematics and Computer Science (AMCS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both applied math and computer science so that students get the benefit of both majors without having to double major.

The job outlook for individuals with math majors is extremely favorable, as is the job outlook for computer science majors. A student with combined knowledge in both areas is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences on their way to a degree. Why? Because math and computer science are not applied in a world without humans. Regardless of the type of industry, the applications being worked on have impact and consequences for human beings. A broad world view of cultures, history, and society only leads to better decision-making in scientific careers, and strong communication skills only make our graduates even more attractive.

Requirements

Applied Math and Computer Science Major Requirements
Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

Admission
As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in College of Engineering and Applied Science or College of Letters and Science, who assists in planning a program. Admission to the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

Degree Requirements
For the BS (AMCS) degree, 120 credits are required, of which 75 must be taken from the College of Letters and Science. Students must satisfy the general education requirements (GER) (p. 29) of the University. Students must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>12</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 240</td>
<td>Matrices and Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in COMPSCI at the 300 level or above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits from MATH and/or MTHSTAT and/or ACTSCI at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Select one of the following pairs:

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 305 &amp; MATH 405</td>
<td>Introduction to Mathematical and Computational Modeling and Mathematical Models and Applications</td>
</tr>
<tr>
<td>MATH 313 &amp; MATH 315</td>
<td>Linear Programming and Optimization and Mathematical Programming and Optimization</td>
</tr>
<tr>
<td>MATH 320 &amp; MATH 322</td>
<td>Introduction to Differential Equations and Introduction to Partial Differential Equations</td>
</tr>
<tr>
<td>MATH 413 &amp; MATH 415</td>
<td>Introduction to Numerical Analysis and Introduction to Scientific Computing</td>
</tr>
<tr>
<td>MATH 413 &amp; MATH 417</td>
<td>Introduction to Numerical Analysis and Computational Linear Algebra</td>
</tr>
<tr>
<td>MATH 415 &amp; MATH 417</td>
<td>Introduction to Scientific Computing and Computational Linear Algebra</td>
</tr>
<tr>
<td>MATH 431 &amp; MATH 531</td>
<td>Modern Algebra with Applications and Modern Algebra</td>
</tr>
<tr>
<td>MATH 521 &amp; MATH 522</td>
<td>Advanced Calculus I and Advanced Calculus II</td>
</tr>
<tr>
<td>MATH 531 &amp; MATH 535</td>
<td>Modern Algebra and Linear Algebra</td>
</tr>
<tr>
<td>MATH 601 &amp; MATH 602</td>
<td>Advanced Engineering Mathematics I and Advanced Engineering Mathematics II</td>
</tr>
<tr>
<td>MATH 621 &amp; MATH 622</td>
<td>Introduction to Analysis I and Introduction to Analysis II</td>
</tr>
<tr>
<td>MATH 631 &amp; MATH 632</td>
<td>Modern Algebra I and Modern Algebra II</td>
</tr>
<tr>
<td>MATH 636 &amp; MATH 637</td>
<td>Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II</td>
</tr>
<tr>
<td>MTHSTAT 361 &amp; MTHSTAT 362</td>
<td>Modern Algebra I and Linear Algebra</td>
</tr>
<tr>
<td>MTHSTAT 361 &amp; MATH 571</td>
<td>Modern Algebra I and Introduction to Probability Models</td>
</tr>
</tbody>
</table>

Select 21 additional credits from CompSci, Math, MthStat, and ActSci courses at the 300 level or above, beyond the "Core" as well as the above "Advanced" Requirements

Total Credits: 79

1. COMPSCI 317 is waived for students who earn credit for MTHSTAT 361, which counts towards the math electives for the program. Students who have COMPSCI 317 waived in this case do not need to take any additional credits.

Potential Course of Study

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>1st semester foreign language</td>
<td></td>
<td>3-5</td>
</tr>
</tbody>
</table>

**Credits**: 13-15

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 2**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits**: 16-18

**Year 3**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CompSci advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math or Comp Sci advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Credits**: 14-16

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math or Comp Sci advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits**: 15

**Year 4**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math or CompSci advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities + QWCB</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits**: 12

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI or Math advanced electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits**: 15

Total Credits: 116-123

1. Select a sufficient number of elective credits from the College of Letters and Science to earn a minimum of 75 L&S credits.

Honors in the Degree

Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: MATH 599, MATH 699, COMPSCI 595, or COMPSCI 699;
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHSTAT) or Computer Science in a course numbered 600 or higher that is different from MATH 699 and COMPSCI 699.

Students who believe they may qualify for honors in Applied Mathematics & Computer Science should apply to the Department of Mathematical Sciences during their last semester of study.

**Computer Science, BA**

Computer science is the study and design of computer systems, networks, software, and computing techniques. It is a dynamic field with a growing impact on the world today.

The Computer Science BA program is intended to permit students to combine interest in an alternate area (in humanities, arts, the professions or even natural science) with computer science in order to gain skills that increase their desirability with employers. Burning Glass found that adding software development or computer programming skills permits graduates to gain a 30+% salary premium over those without.

**New Freshmen**

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

**Transfer Students**

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

**Admission to the Major**

Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

**Requirements**

**General Education Requirements (GERs)**

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of the program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

**Computer Science Curriculum**

Minimum Credit Hours Required: 120

The program requires one semester of calculus (see Mathematics requirements below) and also 34 credits of major course requirements (22 credits of fixed courses and 12 credits of electives within the major). In addition, a student must either complete (or have completed) a second major, or demonstrate two minor areas of concentration. The alternate major or minor areas of concentration must overlap no more than six credits total with major course requirements of this degree. Furthermore, at least fifteen credits of the major course requirements must be completed at UW-Milwaukee.

**Mathematics Requirements**

Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Major Course Requirements**

Take all of the following "Core" courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 150</td>
<td>Survey of Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 395</td>
<td>Social, Professional, and Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits**

22
Additionally, students must take twelve elective credits of COMPSCI courses numbered 300 or higher.

The COMPSCI 395 and EAS 200 courses may be substituted with similar courses. The department maintains a list of approved substitutes; this list is posted publicly. If the substitutes are used to satisfy the second major or the minor areas, the credits substituted count against the allowable six credits of overlap.

**Minor Areas of Concentration**

For the purposes of this degree program, a “minor area of concentration” can be any of the following:

- An Associate’s degree at UWM or another school;
- A declared UWM Minor;
- A declared UWM Certificate;
- At least fifteen credits of courses in a single curricular code (other than CompSci), of which at least six credits are at the 300-level or higher.

As described above, the two minor areas of concentration can overlap with the major course requirements by no more than six credits total.

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising
from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

**Joint Programs with Wisconsin Technical Colleges**

**Gateway Technical College**

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

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**Waukesha County Technical College**

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**Computer Science, BS**

Computer science is the study and design of computer systems, networks, software, and computing techniques. But more importantly, it is a dynamic field with a growing impact on the world today. A report on Science, Technology, Engineering and Math (STEM) from the Georgetown University Center on Education and the Workforce (http://cew.georgetown.edu/STEM/) forecasts 51% of STEM occupations will be computer occupations by 2018.

**Concentrations**

- Artificial Intelligence
- Programming Language Design and Implementation
- Software Engineering
- Computer Networking
- Algorithm Design

**Research**

Work with faculty (http://uwm.edu/engineering/classification/faculty/computer-science/) engaged in leading-edge research in areas such as:
• Object-oriented programming
• Cryptography
• Computational robotics
• Intelligent dialog systems
• Artificial intelligence
• Extensible languages

Career Paths
Computer Science opens up a multitude of career options with great income potential within both the public and private sectors.

• Software Engineer
• Systems Integration Consultant
• Information Technology Manager
• Game Developer
• Application Developer/Programmer
• Data Analyst

Accreditation
The Computer Science program is accredited by the Computing Accreditation Commission of ABET: https://www.abet.org (https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C6ce2c28ec5ad4a0c130408d8696f0413%7C0bca7ac3fc64e6d89eb6de97603cf21%7C0%7C0%7C637375272813475789&sdata=QOpxJNyistsZ1qVoNhMAUfiQcKDO%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C6ce2c28ec5ad4a0c130408d8696f0413%7C0bca7ac3fc64e6d89eb6de97603cf21%7C0%7C0%7C637375272813475789&sdata=QOpxJNyistsZ1qVoNhMAUfiQcKDO).

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major
Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Computer Science Curriculum
The minimum number of credits required to complete the Bachelor of Science in Computer Science with a major in Computer Science is 120. Students who need background preparation courses in math, English, and foreign language may need additional credits. Computer Science students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 150</td>
<td>Survey of Computer Science (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 337</td>
<td>System Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 361</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 395</td>
<td>Social, Professional, and Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 417</td>
<td>Introduction to the Theory of Computation</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 431</td>
<td>Programming Languages Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 595</td>
<td>Capstone Project</td>
<td>4</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECCENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics Requirement
Select one of the following: 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
</tbody>
</table>
Natural Science Requirement

Complete 12 credits including at least 1 laboratory credit.

Must include one of the following sequences:

- BIO SCI 150 & BIO SCI 152: Foundations of Biological Sciences I and Foundations of Biological Sciences II
- BIO SCI 202 & BIO SCI 203: Anatomy and Physiology I and Anatomy and Physiology II
- CHEM 102 & CHEM 104: General Chemistry and General Chemistry and Qualitative Analysis
- PHYSICS 120 & PHYSICS 122: General Physics I (Non-Calculus Treatment) and General Physics II (Non-Calculus Treatment)
- PHYSICS 209 & PHYSICS 210: Physics I (Calculus Treatment) and Physics II (Calculus Treatment)

Remaining credits to be chosen from the Natural Science GER list, except that CompSci 150, Math and MathStat courses may not be used as part of the Natural Science Requirement.

GER Distribution Requirement

- Arts: 3
- Humanities: 3
- Social Science: 6
- ENGLISH 310: Writing, Speaking, and Technoscience in the 21st Century: 3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

English Composition Requirement

Satisfied by one of the following:

- Earning a satisfactory score on the English placement test or other appropriate test, as determined by the English Department; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

Foreign Language Requirement

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or

Technical Electives - Select 15 credits from the following three lists:

All non-required CompSci courses numbered 400-699 are either Computer Science or Applied Technology Electives. The Applied Technology Electives are numbered 480-489. All other non-required CompSci courses in the 400-600 range are Computer Science Electives. A minimum of 9 credits must come from the Computer Science Electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 443</td>
<td>Intelligent User Interfaces and Usability Assessment</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 511</td>
<td>Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 552</td>
<td>Advanced Object-Oriented Programming</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 581</td>
<td>Web Languages and Standards</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 599</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 654</td>
<td>Introduction to Compilers</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 655</td>
<td>Compiler Implementation Laboratory</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 657</td>
<td>Topics in Computer Science:</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 659</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td></td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td></td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Applied Technology Electives

Select 0-6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 658</td>
<td>Topics in Applied Computing:</td>
<td></td>
</tr>
</tbody>
</table>

Supplemental Electives

Select 0-6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 490</td>
<td>Entrepreneur Internship</td>
<td></td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period</td>
<td></td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

Applied Mathematics Electives

Select 9 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td></td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 222</td>
<td>Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td></td>
</tr>
<tr>
<td>MATH 240</td>
<td>Matrices and Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 305</td>
<td>Introduction to Mathematical and Computational Modeling</td>
<td></td>
</tr>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td></td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 422</td>
<td>Introduction to Artificial Intelligence</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 423</td>
<td>Introduction to Natural Language Processing</td>
<td></td>
</tr>
</tbody>
</table>
Students wishing to major in more than one field can do so in two ways: Dual Majors then begin.

Within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation. Occasionally, a program change will be required of all students.
they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

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**Computer Science, Minor**
The computer science minor is directed toward those students wishing to develop some strength and background in computer science. This minor also is available to those who have already graduated.

**Requirements**
- The minor requires 18 credits selected from Computer Science courses.
- Minimum of 9 credits from 300-level coursework or higher. May not include COMPSCI 395 and prior consent is required to include COMPSCI 657 or COMPSCI 658.
- Minimum of 12 credits of minor coursework must be completed at UWM.
- The student must obtain a minimum GPA, as specified by the department, in the courses used to complete the minor.
- If a bachelor's degree was obtained at another institution, upon completion of the minor requirements the student will be awarded a Certificate of Minor.

**Computer Science, MS**
The MS in Computer Science program is a rigorous graduate program designed to meet the needs of any student wishing to gain advanced understanding of the principles and practices needed to harness the power of computing to help society and the world. The program can be a
stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity.

**Tracks**
The Master of Science in Computer Science (MSCS) degree offers a regular track and a professional track. The regular track is designed to prepare students for PhD research in Computer Science. The professional track is designed to prepare students, possibly with undergraduate majors other than computer science, for success in their industrial careers. Students in the professional track are not eligible for financial aid from Computer Science department.

- MSCS Regular Track
- The Professional Track

**Requirements**

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Credits and Courses**

**MSCS Regular Track**
An applicant must meet Graduate School requirements to be considered for admission. Additionally, the applicants must meet either of the following program requirements:

- Undergraduate major in Computer Science.
- Satisfactory completion of two programming courses (such as COMPSCI 250 and COMPSCI 251); at least 6 additional credits of coursework in CS; and one course in calculus (such as MATH 211 or MATH 231).

Applicants without sufficient Computer Science background are encouraged to apply to the professional track. Applicants not admitted to the regular track may be offered admission to the professional track instead. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The student must have taken six Computer Science courses (specified below) or their equivalents prior to completion of the MS Program. Appropriate courses taken by a student in another program that are considered equivalent to the courses below can be used to satisfy this requirement with the approval of the Department. The six courses are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

The students in the regular track must write a thesis or complete a capstone project.

**Thesis Option**
The minimum credit requirement is 30, comprising:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits of 700 or higher level courses, including the following:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of additional courses that carry graduate credit</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 990</td>
<td>Masters Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 Excluding COMPSCI 990.

All courses must be approved in the Program of Study. The student must not register for more than 4 credits of COMPSCI 990 in any one semester. The student must write an acceptable thesis under the supervision of a faculty advisor and pass a final comprehensive examination, which will normally focus on the thesis. Once a student begins a thesis under the supervision of an advisor, the graduate program director must approve any change to a new thesis advisor.

**Capstone Option**
The minimum credit requirement is 31, comprising:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 995</td>
<td>Master’s Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>Select 15 additional credits of 700 or higher level courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of additional courses that carry graduate credit</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

The student must complete a capstone project under the supervision of a faculty advisor and pass COMPSCI 995 with a grade of B or better.

**The Professional Track**
An applicant must meet Graduate School requirements to be considered for admission. We expect that students admitted to the professional track will have knowledge of computer programming to the extent of COMPSCI 250 and COMPSCI 251. Applicants can demonstrate this knowledge via academic coursework or online courses. Applicants can also explain in their Statement of Purpose if they gained this knowledge via work experience. All admitted students must take a placement test.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

At most six credits of the courses used to satisfy this requirement (excluding COMPSCI 315, COMPSCI 317 and COMPSCI 351) and taken as a graduate student may be used in either option of the program. All students must submit an approved Undergraduate Requirements Assessment (which explains how the requirement will be met) prior to registering for any courses.
on their knowledge of computer programming. The students may be required to additionally take COMPSCI 250 and COMPSCI 251 based on their performance in this test.

The student must demonstrate knowledge equivalent to the following four Computer Science courses prior to completion of the MS Program:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

This requirement can be met in one of the following ways:

- A grade B or better in these courses or equivalent CompSt courses.
- Passing the sufficiency exams offered by the course instructors.
- Prior academic coursework approved by the academic advisor.

The credits earned while taking these courses as a graduate student may be used to meet the credit requirements of the program. All students must submit an approved Undergraduate Requirements Assessment (which explains how the requirement will be met) prior to registering for any courses.

The minimum credit requirement is 31 graduate credits, comprising:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Select at least 15 credits of 700-level CompSci courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select up to 9 graduate credits of courses from a pre-approved list of non-CompSci courses considered useful for professionals in CompSci-related industries</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select the remaining credits from graduate-level or U/G-level CompSci courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

1 These 15 credits may include COMPSCI 995, which is required for those students who fulfill the Capstone Requirement by completing a capstone project.

Up to 12 credits of prior graduate-level course work (including up to 6 credits of prior graduate-level Computer Science courses) can be used to meet the credit requirements. All courses must be approved in the Program of Study. Any non-CompSci courses must be approved prior to registration.

**Capstone Requirement**

The student must demonstrate the ability to integrate the knowledge of the discipline in one of the following ways:

- A capstone project completed under faculty supervision by completing the 3-credit COMPSCI 995 course with a B or better grade. These credits can be applied towards the requirement regarding 700-level CompSci courses.
- An oral exam based on a prior open-source or professional project completed by the student. The student must ensure that faculty can review the actual implementation of the project.

**Industrial Internship**

With faculty advisor's approval, one credit per semester of COMPSCI 990 or COMPSCI 995 may be satisfied with a supervised industrial internship for a maximum of two credits.

**Additional Requirements**

**Major Professor as Advisor**

The student is assigned an initial faculty advisor at the time of admission. The student selects a faculty member as a thesis or capstone advisor, respectively, as they follow the regular or professional track, after consultation with that faculty member. Any change in faculty advisor requires the documented permission of the new faculty member and the Department. An initial Program of Study with student, advisor and Department approval should be completed prior to the completion of 9 credits in the program. The final Program of Study must be approved by the thesis or capstone advisor, as appropriate.

**Switching between Tracks**

A student in the regular track may switch to the professional track at any time. However, such a student will no longer be eligible for research/teaching/project assistantships or any other financial aid from Computer Science department. A student admitted under the professional track may switch to the regular track after completing at least 15 credits of the professional track with at least 3.5 cumulative GPA. Note that not all courses acceptable under the professional track may be acceptable under the regular track.

**Financial Aid**

Students enrolled in the professional track are not eligible for financial aid from Computer Science department including research assistantships, teaching assistantships, project assistantships, fellowships and/or tuition waivers. However, such students are still eligible for financial aid available elsewhere on the campus.

**Time Limit**

All students must complete the degree requirements within five years of initial enrollment.

**Web Development, Undergraduate Certificate**

The Web Development Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in web programming. This certificate is also available to those who have already graduated.

**Requirements**

At least 8 credits must be completed at UWM. The student must maintain a minimum GPA, as specified by department, in courses used to complete the certificate. No course may be taken on a credit/no credit basis.

The 18-credit certificate requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Programming (3 credits) - Select one of the following:</strong></td>
<td><strong>3</strong></td>
<td></td>
</tr>
<tr>
<td>COMPSCI 202</td>
<td>Introductory Programming Using Python</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td><strong>Web Documents (3 credits) - Select one of the following:</strong></td>
<td><strong>3</strong></td>
<td></td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
</tbody>
</table>
Electives

Electives (6 credits) - Select 2 courses from the following list:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 218</td>
<td>2D Design Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 531</td>
<td>Developing Web Applications Using Web Services</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 413</td>
<td>Rhetoric and the Internet</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 112</td>
<td>Introduction to the Internet and the World Wide Web</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 150</td>
<td>Survey of Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 552</td>
<td>Advanced Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 530</td>
<td>Workshop in Computer Instruction in the Schools</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>HCA 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 542</td>
<td>Healthcare Database Design and Management</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 325</td>
<td>Information Security I</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 370</td>
<td>Data Analysis and Visualization for the Information Professional</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 375</td>
<td>Multimedia Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Electrical Engineering

Electrical engineers are at the forefront of developing technologies to improve and enhance our society. They are involved with understanding the fundamentals of nature to improve design methods and techniques, as well as applying their creativity to solving challenging problems. Electrical engineers design and analyze systems for supplying electric power; navigation systems for automobiles, aircraft, and spacecraft; audio and visual communication systems; and systems for information processing and computing.

The major in electrical engineering provides the undergraduate student with a broad understanding of the many areas within the field of electrical engineering. At the same time, the curriculum provides a choice of technical electives designed to strengthen the student in a chosen area of specialization.

Mission Statement

The Department of Electrical Engineering is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Programs

- Electrical Engineering, BSE (p. 498)
- Electrical Engineering, Minor (p. 502)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Armstrong</td>
<td>Professor, Co-Chair</td>
<td>PhD</td>
<td>Stanford University</td>
</tr>
<tr>
<td>John T. Boyland</td>
<td>Professor, Co-Chair</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
</tr>
<tr>
<td>Christine T. Cheng</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>Robert Cuzner</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>Adrian Dumitrescu</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers, The State University of New Jersey</td>
</tr>
<tr>
<td>Mukul Goyal</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
</tr>
<tr>
<td>George Hanson</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
</tr>
<tr>
<td>Seyed Hosseini</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
</tr>
<tr>
<td>Yi Hu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Dallas</td>
</tr>
<tr>
<td>Charles E. Kahn Jr.</td>
<td>Adjunct Professor</td>
<td>MD</td>
<td>University of Illinois at Chicago</td>
</tr>
<tr>
<td>Nikolai A. Kouklin</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Nebraska - Lincoln</td>
</tr>
<tr>
<td>Robert J. Krueger</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Faculty: ✔
Emeritus Faculty: ✔
Electrical Engineering, BSE

Electrical engineering graduates pursue careers in fields such as energy generation and transmission, renewable energy, power electronics, bio-imaging and devices, signal and image processing, communications, optical and photonic circuits and devices, controls and automation, and many other areas.

Concentrations

Several possible technical elective course groupings are listed below, as an aid in choosing technical electives. Electrical engineering students do not need to follow any particular grouping – the listings described below are provided as a guide only. In the long term, students will be better prepared for an engineering career having a broad exposure to different technical areas, rather than a narrow focus in one specialized area.

- Power Electronics and Power Systems
- Optics
- Nanotechnology/Nanoengineering
- Microwave/Radio-Frequency Engineering
- Electronics
- Controls
- Computer Systems
- Communications and Signal Processing
- Biomedical Imaging
- Embedded Systems

Research

Work with faculty engaged in leading-edge research in areas such as:

- Optics and photonics in neuroscience
- Renewable energy
- Machine learning
- Artificial intelligence

Accreditation

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET: https://www.abet.org (https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C6375ad43fb2946154ce608d868a20d99%7C0bca7ac3fcb64efd89eb6de97603cf5%2BKroP652KILn3Fk6XJrFPGVVI7xDU%3D%3D&reserved=0).

New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.
Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major
Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at any time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Electrical Engineering Curriculum
The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in electrical engineering is 126. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

### Code | Title | Credits
--- | --- | ---
**Engineering Core**
COMPSCI 240 | Introduction to Engineering Programming | 3
COMPSCI 241 | C Programming for Embedded Systems | 3
EAS 200 | Professional Seminar | 1
ELECENG 101 | Fundamentals of Electrical Engineering | 3
ELECENG 301 | Electrical Circuits I | 3
MATLENG 201 | Engineering Materials | 4
**Major Requirements**
ELECENG 305 | Electrical Circuits II | 4
ELECENG 310 | Signals and Systems | 3
ELECENG 330 | Electronics I | 4
ELECENG 335 | Electronics II | 4
ELECENG 354 | Digital Logic | 3
ELECENG 361 | Electromagnetic Fields | 3
ELECENG 362 | Electromechanical Energy Conversion | 4
ELECENG 367 | Introduction to Microprocessors | 4
ELECENG 420 | Random Signals and Systems | 3
ELECENG 595 | Capstone Design Project | 5
**Mathematics Requirement**
MATH 231 | Calculus and Analytic Geometry I | 4
MATH 232 | Calculus and Analytic Geometry II | 4
MATH 233 | Calculus and Analytic Geometry III | 4
ELECENG 234 | Analytical Methods in Engineering | 4
**Chemistry Requirement**
CHEM 105 or CHEM 102 | General Chemistry for Engineering | 5
**Physics Requirement**
Select one of the following options:
**Option 1:**
PHYSICS 219 & PHYSICS 220 | Physics I: Calculus-Based, Studio Format and Physics II: Calculus-Based, Studio Format | 10

**Option 2:**
PHYSICS 209 & PHYSICS 214 | Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment) | 10
PHYSICS 210 & PHYSICS 215 | Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment) | 10

**GER Distribution Requirement**
| Arts | 3
| Humanities | 3
| Social Science | 6
ENGLISH 310 | Writing, Speaking, and Technoscience in the 21st Century | 3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

Free Electives
Select 2 credits

English Composition Requirement
Satisfied by one of the following:

- Earning a satisfactory score on the English placement test, or other appropriate test as determined by the English Department; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

Foreign Language Requirement
Satisfied by one of the following:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

1. MATH 221, MATH 222 and two free electives may substitute for MATH 231, MATH 232 and MATH 233

Technical Electives
The electrical engineering program requires a total of 24 credits of technical electives, chosen as follows.

Group A Technical Electives
All non-required Electrical Engineering courses numbered 400-699 are Group A Technical Electives.

| Code | Title | Credits |
--- | --- | ---
**Group A Technical Electives**
BUS ADM 447 | Entrepreneurship | 4
COMPSCI 459 | Fundamentals of Computer Graphics | 4
COMPSCI 520 | Computer Networks | 4
COMPSCI 530 | Computer Networks Laboratory | 4
Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.
The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs
Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Academic Advising
The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,

and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Honors in the College of Engineering and Applied Science
Dean’s Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses
Pre-engineering
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges
Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering...
program. For more information, contact the Office of Student Services at (414) 229-4667.

**Milwaukee Area Technical College**

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

**Waukesha County Technical College**

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

**Electrical Engineering, Minor**

The minor in electrical engineering is designed for students in engineering and science majors. The minor is not available to electrical engineering majors.

**Requirements**

It requires students to take a minimum of 21 credits, of which not more than 6 credits overlap with the student’s major. Students must attain a minimum GPA of 2.0 in the minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Select 15 credits from the following:</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 310</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 330</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 335</td>
<td>Electronics II</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 362</td>
<td>Electromechanical Energy Conversion</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 595</td>
<td>Capstone Design Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 6 electives (see below)  
Total Credits: 21

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 439</td>
<td>Introduction to Biomedical Optics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 461</td>
<td>Microwave Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 462</td>
<td>Antenna Theory</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 465</td>
<td>Broadband Optical Networks</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 474</td>
<td>Introduction to Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 490</td>
<td>Topics in Mechanical Engineering:</td>
<td>1-3</td>
</tr>
<tr>
<td>ELECENG 541</td>
<td>Integrated Circuits and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 562</td>
<td>Telecommunication Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 565</td>
<td>Optical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 481</td>
<td>Electronic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 321</td>
<td>Basic Heat Transfer</td>
<td>4</td>
</tr>
</tbody>
</table>

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667, EMS Room E386.

**Engineering and Applied Science (Graduate Programs)**

With the exception of the Master of Science in Computer Science, the graduate programs offered by the College of Engineering and Applied Science are college-wide programs, and the responsibility for these programs is vested in the graduate faculty of the College operating via an interdepartmental committee, the Graduate Program Subcommittee (GPSC).

The engineering master’s program offered by the College is the Master of Science in Engineering.

The program provides breadth by requiring a program of coursework and depth through participation in research or design synthesis. The research or design synthesis effort is documented in a thesis that is presented and defended by the student at the final degree examination. For those with prior engineering/scientific work experience which includes appropriate report writing, the program offers a non-thesis option which requires additional coursework in lieu of thesis.

Since the program does not require a rigid set of courses, each student, in consultation with faculty, has the flexibility to put together a program of study which is compatible with the student’s career objectives. The flexibility of customizing the program of study makes the Master of Science in Engineering Program suitable as a terminal degree as well as a stepping stone for doctoral level study.

**Related Certificates**

- Certificate in Advanced Computational Imaging (p. 503)
- Certificate in Energy Engineering (p. 504)
- Certificate in Ergonomics (p. 546)
Programs

- Advanced Computational Imaging, Graduate Certificate (p. 503)
- Energy Engineering, Graduate Certificate (p. 504)
- Engineering, MS (p. 505)
- Engineering, MS/Urban Planning, MUP (p. 507)
- Engineering, MS: Biomedical Engineering (p. 508)
- Engineering, MS: Civil Engineering (p. 510)
- Engineering, MS: Electrical and Computer Engineering (p. 511)
- Engineering, MS: Energy Engineering (p. 513)
- Engineering, MS: Engineering Management (p. 515)
- Engineering, MS: Engineering Mechanics (p. 516)
- Engineering, MS: Industrial and Systems Engineering (p. 518)
- Engineering, MS: Manufacturing Engineering (p. 520)
- Engineering, MS: Materials Engineering (p. 522)
- Engineering, MS: Mechanical Engineering (p. 523)
- Engineering, MS: Occupational Biomechanics/Ergonomics (p. 525)
- Engineering, PhD (p. 527)
- Engineering, PhD: Biomedical Engineering (p. 529)
- Engineering, PhD: Civil Engineering (p. 532)
- Engineering, PhD: Computer Science (p. 534)
- Engineering, PhD: Electrical Engineering (p. 536)
- Engineering, PhD: Industrial Engineering (p. 539)
- Engineering, PhD: Materials Engineering (p. 541)
- Engineering, PhD: Mechanical Engineering (p. 543)
- Ergonomics, Graduate Certificate (p. 546)

Contact Information

Office of Student Services
Engineering and Mathematical Sciences Building, E386
Phone: (414) 229-4667
ceas-adv@uwm.edu

Advanced Computational Imaging, Graduate Certificate

Modern medical imaging systems are complex, high-technology devices. Engineers designing and developing medical imaging systems must have knowledge and understanding around concepts not traditionally available in bachelor’s degree programs in engineering or computing. Such concepts include:

- Mathematical foundations of tomography (images constructed from a series of “slices”).
- Image artifacts that distort the images and how to correct them.
- Hardware and software for the embedded computing systems that are used to implement image construction and correction.

This program fills a need to prepare engineers with the knowledge, understanding, and abilities essential for a successful career in modern medical imaging systems.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students must have:

1. A baccalaureate degree.
2. A minimum 2.75 cumulative undergraduate grade point average.

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UW-Madison graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

A minimum of 15 credits of which at least 12 credits must be taken at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 782</td>
<td>Physics of Medical Imaging</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 657</td>
<td>Topics in Computer Science: (Edison A)</td>
<td></td>
</tr>
<tr>
<td>ELECENG 490</td>
<td>Topics in Electrical Engineering: (Edison A)</td>
<td></td>
</tr>
<tr>
<td>ELECENG 716</td>
<td>Tomography: Imaging and Image Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 717</td>
<td>Tomography: Image Quality and Artifact Correction</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/COMPSCI 545</td>
<td>FPGA Embedded CPUs &amp; Firmware Development</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 729</td>
<td>Real-Time Operating Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15
Students who have taken ELECENG 437 or ELECENG 545/COMPSCI 545 or their equivalents as an undergraduate may substitute a relevant graduate course with the approval of the Certificate program. The program maintains a list of suggested substitute courses. The current list is:

- ELECENG 711/COMPSCI 711
- ELECENG 712/COMPSCI 712
- ELECENG 713/COMPSCI 713
- COMPSCI 718
- COMPSCI 758
- COMPSCI 762

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Energy Engineering, Graduate Certificate

With the rapid dwindling of energy resources, there is a great demand for workers in various fields to keep themselves abreast of the latest technology in solving and planning for the energy shortage and efficient use of energy. This interdisciplinary Certificate in Energy Engineering Program is open to post-baccalaureate students who are interested in continuing education for career development or gaining experience in the energy area. In particular, the Program will provide basic knowledge on the design of electrical and mechanical devices and systems and yet has adequate flexibility for students to focus on certain areas in energy according to their own discretion in advanced courses.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students must have a baccalaureate degree. A minimum 2.75 cumulative undergraduate grade point average is required.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
To obtain the certificate, students are required to complete a minimum of 15 credits from the lists of Groups A and B courses of which at least 12 credits must be taken at UWM.

Students must complete at least two courses from Group A to obtain an Energy Engineering Certificate. Additional electives can be chosen from Group B. At least 6 credits must be 700-level or above. A maximum of 3 credits of independent study may be applied toward the certificate.

<table>
<thead>
<tr>
<th>Group A Credits</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ELECENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ELECENG 575</td>
<td>Analysis of Electric Machines and Motor Drives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MECHENG 432</td>
<td>Internal Combustion Engines</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MECHENG 434</td>
<td>Air Conditioning System Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MECHENG 435</td>
<td>Power Plant Theory and Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MECHENG 436</td>
<td>Solar Engineering</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ELECENG 781</td>
<td>Advanced Synchronous Machinery</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ELECENG 872</td>
<td>Computer Analysis of Electric Power Systems</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be transferred from energy-related, graduate-level coursework taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count toward a UWM graduate degree only if they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Engineering, MS

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

• Biomedical Engineering
• Civil Engineering
• Electrical and Computer Engineering
• Energy Engineering
• Engineering Management (admission to this concentration is suspended)
• Engineering Mechanics
• Industrial and Systems Engineering
• Manufacturing Engineering
• Materials Engineering
• Mechanical Engineering
• Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.

2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the
individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TAs, RAs, and PA’s.

Thesis Option
All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits of thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absencia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
</tbody>
</table>

Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course) 3

Total Credits 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

Non-Thesis Comprehensive Examination Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or

2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Additional Requirements

Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study. obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.
Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS/Urban Planning, MUP

In cooperation with the Department of Urban Planning, the College of Engineering and Applied Science offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas.

Cooperating Departments:
Civil Engineering
Electrical Engineering and Computer Science
Industrial and Manufacturing Engineering
Materials
Mechanical Engineering

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

Credits and Courses

Students are required to meet the College of Engineering and Applied Science requirements for the Master of Science in Engineering degree as well as the requirements for a Master of Urban Planning degree as set by the Department of Urban Planning. Students in this program are required to take 15 credits in an approved program of technical studies in the College of Engineering and Applied Science, and 6 credits in nontransportation related engineering approved electives.

Students in the MS/MUP program are required to take 6 credits in the Department of Urban Planning as well as an additional 24 credits of core courses in the Department of Urban Planning. The total credit requirement for the MS/MUP program is 54 credits. Students in the MS/MUP program must also take and pass a comprehensive exam in Urban Planning.

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 27

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
</tbody>
</table>

MS Thesis Option

Urban Planning Credits (See course list above): 27
Civil Engineering Concentration credits (see courses below): 15
Select 6 credits of approved electives: 6
Select 3 credits CEAS Graduate Seminar: 3
Select 3 credits of thesis: 3
Total Credits: 54

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 55

Non-Thesis Capstone Option

Urban Planning Credits (See course list above): 27
Minimum 18 credits approved credits including Civil Engineering Concentration (see courses below): 18
Select 6 credits of approved electives: 6
Select 1 credits CEAS Graduate Seminar: 1
Select 3 credits of capstone: Capstone course or flexible independent study: 3
Total Credits: 55

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Non-Thesis Comprehensive Examination Option

Urban Planning Credits (See course list above): 27
Minimum 21 credits approved credits including Civil Engineering Concentration (see courses below): 21
Select 6 credits of approved electives: 6
Select 1 credits CEAS Graduate Seminar: 1
Total Credits: 55

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Civil Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Civil Engineering.

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

May include up to 3 credits each of:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 15
Additional Requirements

Degree Requirements
Students in the program will concurrently pursue a Master of Science in Engineering degree and a Master of Urban Planning degree from the School of Architecture and Urban Planning. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. Candidates seeking admission to the MS/MUP must apply to and be admitted to both programs. The requirements for admission to the Master of Urban Planning degree program are detailed in the Urban Planning section of the Catalog.

Time Limit
Students in the MS/MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

Engineering, MS: Biomedical Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one.

The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 12 credits in an approved technical program</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>of studies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and numbered 700)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits of thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in
absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

Non-Thesis Comprehensive Examination Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Biomedical Engineering Concentration

A minimum of 15 credits of qualifying graduate courses from the list below. May include up to 3 credits each of BME 990 and BME 999. Also, students must take at least 16 credits of engineering courses.

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 733</td>
<td>Sensors and Systems</td>
<td>3</td>
</tr>
<tr>
<td>BME 890</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>BME 990</td>
<td>Masters Thesis *</td>
<td>1-9</td>
</tr>
<tr>
<td>BME 999</td>
<td>Advanced Independent Study *</td>
<td>1-3</td>
</tr>
<tr>
<td>COMPSCI/ELECENG 710</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/ELECTROENG 710</td>
<td>Advanced Linear System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI/ELECENG 701</td>
<td>Introduction to Machine Learning</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI/ELECENG 712</td>
<td>Image Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/ELECTROENG 718</td>
<td>Nonlinear Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 737</td>
<td>Medical Imaging Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 765</td>
<td>Introduction to Fourier Optics and Optical Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 810</td>
<td>Advanced Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 715</td>
<td>Numerical Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BMS 765</td>
<td>Molecular Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 701</td>
<td>Advanced Measurement and Instrumentation in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 705</td>
<td>Molecular, Cellular, and System Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 706</td>
<td>Biophotonics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 782</td>
<td>Physics of Medical Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

* A maximum of 3 credits of BME 990 or 999 may be included.

Additional Requirements

Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.
Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Civil Engineering
The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (https://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (https://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (https://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

Thesis Option
All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>510</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select a minimum of 12 credits in an approved technical program of studies

Select 9 credits of approved electives

Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)

Select 6 credits of thesis

Total Credits

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.
**Non-Thesis Capstone Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

**Civil Engineering Concentration**

A minimum of 15 credits of qualifying graduate courses in Civil Engineering.

**Qualifying Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>May include up to 3 credits each of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Major Professor as Advisor**

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

**Program of Study**

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

**Master’s Program Committee**

The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Engineering, MS: Electrical and Computer Engineering**

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
• Manufacturing Engineering
• Materials Engineering
• Mechanical Engineering
• Occupational Biomechanics/Ergonomics

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
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2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

**Credits and Courses**
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

**Thesis and Non-Thesis Options**
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

**Thesis Option**
All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
</tr>
<tr>
<td>9</td>
<td>Select 9 credits of approved electives</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Select 6 credits of thesis</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

**Non-Thesis Capstone Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Select 9 credits of approved electives</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

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<th>Code</th>
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<tbody>
<tr>
<td>21</td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td></td>
</tr>
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<td>9</td>
<td>Select 9 credits of approved electives</td>
<td></td>
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<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
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</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.
Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

**Electrical and Computer Engineering Concentration**

A minimum of 15 credits of qualifying graduate courses in Electrical Engineering.

### Qualifying Courses

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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any ElecEng course numbered between 701 and 999, excluding 888 and 998.</td>
<td>May include up to 3 credits each of:</td>
<td></td>
</tr>
<tr>
<td>ELECENG 990</td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>ELECENG 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

### Additional Requirements

#### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

#### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

#### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

### Engineering, MS: Energy Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

### Admission Requirements

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<td>MECHENG 425</td>
<td>Aerodynamics of Wind Turbines</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 432</td>
<td>Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 434</td>
<td>Air Conditioning System Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 435</td>
<td>Power Plant Theory and Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 436</td>
<td>Solar Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 472</td>
<td>Introduction to Wind Energy</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 575</td>
<td>Analysis of Electric Machines and Motor Drives</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 701</td>
<td>Advanced Linear System Analysis</td>
<td>3</td>
</tr>
</tbody>
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**Non-Thesis Capstone Option**

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</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 722</td>
<td>Advanced Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 721</td>
<td>Fundamentals of Fluid Flow</td>
<td>3</td>
</tr>
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</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

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</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 710</td>
<td>Advanced Transport Processes</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 711</td>
<td>Thermal Radiation and Conduction</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 712</td>
<td>Convection Heat and Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 718</td>
<td>Nonlinear Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 721</td>
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Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Engineering Management
This concentration has been suspended.

Admission Requirements

Application Deadlines
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Thesis and Non-Thesis Options
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<tr>
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<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits of thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

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<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
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</tr>
</tbody>
</table>
Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)

Total Credits 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BUSMGT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 891</td>
<td>Advanced Topics in Civil Engineering:</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 717</td>
<td>Operations Research in Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 734</td>
<td>Managing Technological Innovation</td>
<td>3</td>
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Total Credits 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

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Concentration in Engineering Management

Concentration credits include the following:

Additional Requirements

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Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Engineering Mechanics

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
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- Engineering Management (admission to this concentration is suspended)
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<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
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<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

**Engineering Mechanics Concentration**

A minimum of 15 graduate credits selected from the following list\(^1\); may include up to 3 credits each of CIV Eng 990 and CIV Eng 999.

<table>
<thead>
<tr>
<th>Qualifying Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 401</td>
<td>Intermediate Strength of Materials 3</td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td>Introduction to Finite Elements 3</td>
</tr>
<tr>
<td>CIV ENG 466</td>
<td>Mechanics of Composite Materials 3</td>
</tr>
<tr>
<td>CIV ENG 469</td>
<td>Introduction to Biomechanical Engineering 3</td>
</tr>
<tr>
<td>CIV ENG 502</td>
<td>Experimental Stress Analysis 3</td>
</tr>
<tr>
<td>CIV ENG 580</td>
<td>Engineering Analysis in Applied Mechanics 3</td>
</tr>
<tr>
<td>CIV ENG 701</td>
<td>Advanced Strength of Materials 3</td>
</tr>
<tr>
<td>CIV ENG 702</td>
<td>Elastic Stability 3</td>
</tr>
<tr>
<td>CIV ENG 725</td>
<td>Advanced Finite Element Method 3</td>
</tr>
<tr>
<td>CIV ENG 726</td>
<td>Mechanical Vibrations 3</td>
</tr>
<tr>
<td>CIV ENG 732</td>
<td>Fatigue in Engineering Materials 3</td>
</tr>
<tr>
<td>CIV ENG 773</td>
<td>Advanced Dynamics 3</td>
</tr>
<tr>
<td>CIV ENG 774</td>
<td>Shock and Vibration Analysis 3</td>
</tr>
<tr>
<td>CIV ENG 804</td>
<td>Theory of Plasticity 3</td>
</tr>
<tr>
<td>CIV ENG 880</td>
<td>Bioengineering Seminar 1</td>
</tr>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis 1-9</td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study 1-3</td>
</tr>
</tbody>
</table>

\(^1\) The following course(s) are part of the approved course list, but are currently inactive: CIV ENG 890.

**Additional Requirements**

**Major Professor as Advisor**

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor, in consultation with the major professor, develops a program of study, obtains the consent of the major professor, submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

**Master's Program Committee**

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Engineering, MS: Industrial and Systems Engineering**

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

Thesis Option
All students are encouraged to undertake the thesis option. The degree requires the following:

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<tr>
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<th>Credits</th>
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</thead>
<tbody>
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<td>IND ENG 573</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

Non-Thesis Capstone Option

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<td></td>
</tr>
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Total Credits 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Industrial and Systems Engineering Concentration
A minimum of 15 credits of qualifying graduate courses in Industrial and Manufacturing Engineering, may include up to 3 credits each of Ind Eng 990 and Ind Eng 999.

Qualifying Courses

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<th>Code</th>
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<td>Design of Experiments</td>
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<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

### Additional Requirements

#### Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

#### Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

#### Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

#### Time Limit
The student must complete all degree requirements within five years of initial enrollment.

### Engineering, MS: Manufacturing Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one.

The MS in Engineering program provides two options:

1. Thesis Option
2. Non-Thesis Option

#### Credits and Courses
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program.

#### Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program.

#### Thesis and Non-Thesis Options
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then
as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

**Thesis Option**
All students are encouraged to undertake the thesis option. The degree requires the following:

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<th>Code</th>
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<tbody>
<tr>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
<td></td>
</tr>
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<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of thesis</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
<td></td>
</tr>
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At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

**Non-Thesis Capstone Option**

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<td></td>
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<td><strong>Total Credits</strong></td>
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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

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<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 credits of approved electives | 9
Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700) | 1

**Total Credits** | **31**

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

**Manufacturing Engineering Concentration**
A minimum of 15 credits of qualifying graduate courses in Industrial and Manufacturing Engineering\(^1\), may include up to 3 credits each of Ind Eng 990 and Ind Eng 999.

**Qualifying Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 550</td>
<td>Control of Automated Manufacturing Systems</td>
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</tr>
<tr>
<td>IND ENG 571</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 575</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 587</td>
<td>Lean Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 751</td>
<td>Flexible Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 880</td>
<td>Bioengineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IND ENG 890</td>
<td>Advanced Topics in Industrial and Systems Engineering:</td>
<td>1-3</td>
</tr>
<tr>
<td>IND ENG 990</td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>IND ENG 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

* Qualifying topics: Sustainable Energy Systems & Industrial Management; Connected Enterprise

\(^1\) The following qualifying course(s) are currently inactive: IND ENG 740.

**Additional Requirements**

**Major Professor as Advisor**
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.
Program of Study
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Master’s Program Committee
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Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Materials Engineering
The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

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Credits and Courses
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Thesis and Non-Thesis Options
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<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

Non-Thesis Comprehensive Examination Option

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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Materials Engineering Concentration

A minimum of 15 credits of graduate courses in Materials Engineering: may include up to 3 credits of MatEng 990 or 999.

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 701</td>
<td>Properties of Solids</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 702</td>
<td>Advanced Materials Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 710</td>
<td>Advanced Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 720</td>
<td>Kinetic Processes in Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 731</td>
<td>Deformation Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 732</td>
<td>Solidification Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 740</td>
<td>Heterogeneous Equilibria</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 750</td>
<td>Thin Solid Films</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 760</td>
<td>Surface Analysis of Solids</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 890</td>
<td>Advanced Topics in Materials:</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 990</td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>MATLENG 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee

The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Mechanical Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous
choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

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<tr>
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</tr>
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<td>9</td>
</tr>
<tr>
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<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
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<tr>
<td></td>
<td>Select 6 credits of thesis</td>
<td>6</td>
</tr>
<tr>
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<td><strong>Total Credits</strong></td>
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At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.
Non-Thesis Comprehensive Examination Option

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Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Mechanical Engineering Concentration
A minimum of 15 credits of qualifying graduate courses in Mechanical Engineering.

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<th>Qualifying Courses</th>
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<tr>
<td></td>
<td>Any MechEng course numbered between 701 and 999, excluding 888 and 998.</td>
<td></td>
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<td></td>
<td>May include up to 3 credits each of: ELECENG 990 Masters Thesis, ELECENG 999 Advanced Independent Study</td>
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Additional Requirements

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The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

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Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Occupational Biomechanics/Ergonomics

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

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- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
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**Non-Thesis Capstone Option**

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**Occupational Biomechanics/Ergonomics Concentration**

- Students must complete at least 6 credits of qualifying courses from Group A.
- Thesis option students must complete at least 18 credits combined of qualifying courses from Group A and Group B.
- Non-thesis option students must complete at least 24 credits combined from Group A and Group B.
- Students must complete at least 2, but no more than 3 credits, of INDENG 880.
• Any remaining credits in the MS in Engineering program of study may be taken as free electives.

<table>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A</td>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IND ENG 590/890</td>
<td>Topics in Industrial and Systems Engineering:</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td>3</td>
</tr>
<tr>
<td>Group B</td>
<td>IND ENG 880</td>
<td>Bioengineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>IND ENG 575</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KIN 520</td>
<td>Introduction to Biomechanics Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IND ENG 890</td>
<td>Advanced Topics in Industrial and Systems Engineering:</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>MATLENG 710</td>
<td>Advanced Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PH 777</td>
<td>Quantitative Research Methods for PH Policy &amp; Administration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KIN 720</td>
<td>Advanced Biomechanics Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KIN 725</td>
<td>Interdisciplinary Themes in Biomechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

* Qualifying Topics: Human Factors, Instrument in Ergonomics & Biomechanics, Connected Enterprise

### Additional Requirements

#### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

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#### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

### Engineering, PhD

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the
deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

Reapplication
A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

Credits and Courses
The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows, depending on the option selected.

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Total Credits 66

The student must achieve a 3.0 GPA separately in each of the following areas: the major area, the minor area, and the quantitative methods area.

The major area of concentration must be in one of the seven areas approved for the PhD degree in the College. These areas are:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

The minor is normally in another area offered in the College or in the physical sciences or mathematics or in management sciences. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 26 credits, excluding doctoral thesis, must be at the 700 level or higher.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

Additional Requirements

Major Professor as Advisor
The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

Foreign Language
There is no foreign language requirement for the degree.

Residence
The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of
from minor area, and one from any area, including the major and minor areas. The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student’s major field.

**Doctoral Preliminary Examination**

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

**Dissertation and Dissertator Status**

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student’s advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

**Dissertation Defense**

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

**Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).

**Engineering, PhD: Biomedical Engineering**

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program...
Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student’s major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. A bachelor’s or master’s degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master’s degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master’s degree who intend to complete an additional master’s in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

**Reapplication**

A student who receives a master’s degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

**Credits and Courses**

The minimum degree requirement is 66 graduate credits beyond the bachelor’s degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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</tr>
</tbody>
</table>

**Total Credits**: 66

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major or the minor area, the remaining credits may be taken as approved electives.

The student must achieve a 3.0 GPA separately in each of the following areas: the major area, the minor area, and the quantitative methods area.

The major area of concentration must be in one of the seven areas approved for the PhD degree in the College. These areas are:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering
The minor is normally in another area offered in the College or in the physical sciences or mathematics or in management sciences. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 26 credits, excluding doctoral thesis, must be at the 700 level or higher.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

### Biomedical Engineering Concentration

Students will complete:

- A minimum of 15 credits of graduate courses from the following list and any new graduate courses that Biomedical Engineering Program introduces in the future with BME coding; and
- At least 18 credits of doctoral thesis (BME 998).

Only one credit of BME 999 will be counted towards this requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BME 705</td>
<td>Rehabilitation Robotics</td>
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<tr>
<td>BME 720</td>
<td>Machine Perception</td>
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<tr>
<td>BME 733</td>
<td>Sensors and Systems</td>
<td></td>
</tr>
<tr>
<td>BME 890</td>
<td>Special Topics:</td>
<td></td>
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<tr>
<td>BME 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>COMPSCI/ELECENG 710</td>
<td>Artificial Intelligence</td>
<td></td>
</tr>
<tr>
<td>COMPSCI/ELECENG 711</td>
<td>Introduction to Machine Learning</td>
<td></td>
</tr>
<tr>
<td>COMPSCI/ELECENG 712</td>
<td>Image Processing</td>
<td></td>
</tr>
<tr>
<td>ELECENG/MECHENG 701</td>
<td>Advanced Linear System Analysis</td>
<td></td>
</tr>
<tr>
<td>ELECENG/MECHENG 718</td>
<td>Nonlinear Control Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 737</td>
<td>Medical Imaging Signals and Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 765</td>
<td>Introduction to Fourier Optics and Optical Signal Processing</td>
<td></td>
</tr>
<tr>
<td>ELECENG 810</td>
<td>Advanced Digital Signal Processing</td>
<td></td>
</tr>
<tr>
<td>MECHENG 715</td>
<td>Numerical Methods in Engineering</td>
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</tbody>
</table>

### Doctoral Thesis

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BME 998</td>
<td>Doctoral Thesis</td>
<td>18</td>
</tr>
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### Additional Requirements

#### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student’s thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

#### Foreign Language

There is no foreign language requirement for the degree.

#### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

#### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and
Dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).

### Engineering, PhD: Civil Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student’s major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

### Admission Requirements

#### Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

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1. A bachelor’s or master’s degree:
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   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master’s degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master’s degree who intend to complete an additional master’s in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

Reapplication
A student who receives a master’s degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

Credits and Courses
The minimum degree requirement is 66 graduate credits beyond the bachelor’s degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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<tr>
<td></td>
<td>CIV ENG 700 CEAS Graduate Seminar</td>
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</tr>
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<td></td>
<td>Select 18 credits of:</td>
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The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Civil Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Civil Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master’s degree who intend to complete a second master’s and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master’s degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

Additional Requirements

Major Professor as Advisor
The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student’s thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

Foreign Language
There is no foreign language requirement for the degree.

Residence
The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.
Qualifying Examination
Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor’s degree or with a master’s degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master’s degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student’s first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

Doctoral Program Committee
The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student’s major field.

Doctoral Preliminary Examination
A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

Dissertation and Dissertator Status
The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student’s advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

Dissertation Defense
The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).

Engineering, PhD: Computer Science
The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
• Computer Science
• Electrical Engineering
• Industrial Engineering
• Materials Engineering
• Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

Reapplication
A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

Credits and Courses
The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Computer Science major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Computer Science major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included.
The minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

**Additional Requirements**

**Advising and the Major Professor**

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

**Residence**

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

**Practicum**

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

**Internship**

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

**Publishable Paper**

Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

**Minor**

Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Cognitive and Developmental Sciences and Educational Statistics and Measurement, based on consultation with an advisor.

**Doctoral Preliminary Examination**

The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

**Proposal Hearing**

A doctoral student qualifies as a "doctoral candidate" upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

**Dissertation Defense**

The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

**Exit Requirements**

Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

**Time Limit**

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Engineering, PhD: Electrical Engineering**

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
• Materials Engineering
• Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student’s major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet Graduate School requirements (http://uw.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. A bachelor’s or master’s degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of the highest degree granted. An applicant with a master’s degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master’s degree who intend to complete an additional master’s in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

**Reapplication**
A student who receives a master’s degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

**Credits and Courses**
The minimum degree requirement is 66 graduate credits beyond the bachelor’s degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Electrical Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Electrical Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master’s degree who intend to complete a second master’s and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master’s degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program.
Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

**Additional Requirements**

**Major Professor as Advisor**

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student’s thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

**Foreign Language**

There is no foreign language requirement for the degree.

**Residence**

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

**Qualifying Examination**

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor’s degree or with a master’s degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master’s degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.

- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student’s first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

**Doctoral Program Committee**

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student’s major field.

**Doctoral Preliminary Examination**

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

**Dissertation and Dissertator Status**

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student’s advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must
continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

**Dissertation Defense**
The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements ([http://uwm.edu/graduateschool/doctoral-requirements/](http://uwm.edu/graduateschool/doctoral-requirements/)).

**Engineering, PhD: Industrial Engineering**
The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

1. Biomedical Engineering
2. Civil Engineering
3. Computer Science
4. Electrical Engineering
5. Industrial Engineering
6. Materials Engineering
7. Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student’s major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**
An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) plus these College requirements to be considered for admission to the program:

1. A bachelor’s or master’s degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.
2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.
5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education ([http://www.uwm.edu/Dept/CIE/](http://www.uwm.edu/Dept/CIE/)).
6. Applicants with a relevant master’s degree who intend to complete an additional master’s in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

**Reapplication**
A student who receives a master’s degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

**Credits and Courses**
The minimum degree requirement is 66 graduate credits beyond the bachelor’s degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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The program residence requirement is satisfied by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

Qualifying Examination
Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

The Industrial Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Industrial Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master’s degree who intend to complete a second master’s and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master’s degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

Additional Requirements

Major Professor as Advisor
The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student’s thesis advisor. The student, in consultation with the major professor, develops a proposed program of study which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

Foreign Language
There is no foreign language requirement for the degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program for failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from beginning enrolled in any other degree program offered by the University.

A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student reenrolled after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student’s first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.
**Doctoral Program Committee**
The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

**Doctoral Preliminary Examination**
A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

**Dissertation and Dissertator Status**
The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

**Dissertation Defense**
The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).

**Engineering, PhD: Materials Engineering**
The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure
the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

Reapplication
A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

Credits and Courses
The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Select 6 credits in mathematics and/or quantitative methods</td>
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<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of: MATLENG 700</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 18 credits of: MATLENG 998</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>66</td>
<td></td>
</tr>
</tbody>
</table>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Materials Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Materials Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

Additional Requirements

Major Professor as Advisor
The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

Foreign Language
There is no foreign language requirement for the degree.

Residence
The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

Qualifying Examination
Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.
• If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
• If the student fails both parts, then the student must take the entire exam again at its next offering.
• If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
• If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

Doctoral Program Committee
The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student’s major field.

Doctoral Preliminary Examination
A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

Dissertation and Dissertator Status
The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student’s advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

Dissertation Defense
The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwcm.edu/graduateschool/doctoral-requirements/).

Engineering, PhD: Mechanical Engineering
The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:
• Biomedical Engineering
• Civil Engineering
• Computer Science
• Electrical Engineering
• Industrial Engineering
• Materials Engineering
• Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student’s major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.
Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these College requirements to be considered for admission to the program:

1. A bachelor’s or master’s degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master’s degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

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5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (http://www.uwm.edu/Dept/CIE/)

6. Applicants with a relevant master’s degree who intend to complete an additional master’s in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

**Reapplication**

A student who receives a master’s degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

**Credits and Courses**

The minimum degree requirement is 66 graduate credits beyond the bachelor’s degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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<td>CEAS Graduate Seminar</td>
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<td>MECHENG 998</td>
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The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Mechanical Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Mechanical Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master’s degree who intend to complete a second master’s and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master’s degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

**Additional Requirements**

**Major Professor as Advisor**

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the
incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student’s thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

**Foreign Language**
There is no foreign language requirement for the degree.

**Residence**
The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

**Qualifying Examination**
Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

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- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student’s first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

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**Dissertation and Dissertator Status**
The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

**Dissertation Defense**
The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).
Ergonomics, Graduate Certificate

The Certificate in Ergonomics is being revised; admission to the program is temporarily suspended.

The Certificate in Ergonomics program is designed to provide a formal program of study for students who wish to pursue careers in ergonomics in industry, government, or academia.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students wishing to earn the certificate must be enrolled in a UWM master’s or doctoral degree program in any department or be admitted as UWM non-degree graduate students (see below).

Graduate non-degree applicants can be admitted to CEAS provided they meet one of the following requirements:

- A bachelor’s or higher degree with a GPA of 2.75 or better in engineering, medicine, industrial hygiene, safety, physical therapy, occupational therapy, nursing, educational psychology, human kinetics.
- A bachelor’s or higher degree with a GPA of 2.75 or better with evidence of at least one year of experience in ergonomics and/or occupational health and safety related area.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Students must complete the required 15 credit hours with a GPA of 3.0 or better from the following group of courses:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IND ENG 790</td>
<td>Design Project</td>
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<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Industrial and Manufacturing Engineering

Industrial and manufacturing engineers are concerned with the design, improvement, installation, and operation of integrated systems of people, material, information, and energy for the development of environmentally sound and globally competitive enterprises.

Industrial/manufacturing engineers are needed in industries ranging from medical products and equipment manufacturing to automotive and electronic components manufacturing. Their skills benefit organizations such as hospitals, banks, airlines, telecommunications companies, and more. Some activities of an industrial/manufacturing engineer include: methods improvement; plant layout; integration of automation components (CAD and CAM); logistics; supply chain management; economic analysis; optimization of resources; quality control; reliability analysis; and ergonomics, i.e., design of workplaces, equipment, and tools for maximum productivity and employee comfort and safety.
In manufacturing companies, industrial/manufacturing engineers may be responsible for production and inventory control, quality control, plant layout, and work station design, and may lead the effort for the introduction of new technologies and other advancements. In service organizations these engineers may develop methods for optimal utilization of resources, such as doctors, nurses, and medical equipment in a hospital; determine the optimal number of communication lines and service level for a telephone company; participate in the development of a total quality management system for a bank, etc.

Mission Statement
The mission of the department is to provide a broad-based education in industrial and manufacturing engineering and to prepare students for a diversified career in industry, academia, government, and private sectors.

Programs
- Industrial Engineering, BSE (p. 547)
- Industrial Engineering, Minor (p. 550)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madiha Ahmed</td>
<td>Lecturer</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tsong-How Chang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jaejin Jang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of South Florida</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edward W. Knoblock</td>
<td>Associate Professor</td>
<td>MS</td>
<td>University of Missouri-Columbia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wilkistar Otieno</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timothy Patrick</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Georgia Institute of Technology, Dean of CEAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matthew Petering</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
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<tr>
<td>Bret Peters</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Umesh K. Saxena</td>
<td>Professor</td>
<td>PhD, PE</td>
<td>Oklahoma State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hamid K. Seifodini</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Industrial Engineering, BSE
Industrial & Manufacturing Engineering is an operations and optimization science, focused on productivity, quality and continuous improvement of all business operations from acquisition of raw materials/resources to delivery of finished products/services to customers.

Industrial & Manufacturing Engineering is among the most far-reaching disciplines of engineering. Industrial and Manufacturing Engineers work in diverse industries within both the public and private sectors. Because of the flexibility and value of industrial engineering skills, employment opportunities are numerous and diverse.

Accreditation
The Industrial Engineering program is accredited by the Engineering Accreditation Commission of ABET: https://www.abet.org (https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C6375ad43fb2946154ce608d868a20d99%7C0%7Bca7ac3fb64efdb89eb6de4%7C55CMhwsV547&data=HQcRF1xSApdPYk547)

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major
Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

**Industrial Engineering Curriculum**

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in industrial engineering is 120.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 203</td>
<td>Introduction to Solid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 202</td>
<td>Introductory Programming Using Python</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 111</td>
<td>Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 112</td>
<td>Engineering Drawing &amp; Computer Aided Design/Drafting</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
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**Major Requirements - 36 credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IND ENG 350</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 370</td>
<td>Introduction to Operations Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 455</td>
<td>Operations Research I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 465</td>
<td>Operations Research II</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 470</td>
<td>Methods Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 475</td>
<td>Simulation Methodology</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 485</td>
<td>Senior Design Project</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 571</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 575</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
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</table>

**Mathematics Requirement - 16 credits**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
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</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
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**Natural Science Requirement - 13 credits**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 105</td>
<td>General Chemistry for Engineering</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment) and Physics II (Calculus Treatment)</td>
<td>8</td>
</tr>
<tr>
<td>&amp; PHYSICS 210</td>
<td></td>
<td></td>
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</tbody>
</table>

**Technical Electives - 9 credits**

Select 9 credits from approved technical electives list below. At least 6 credits must be in courses from IND ENG. All non-required IND ENG courses numbered between 400 and 699 are approved technical electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period</td>
<td></td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 390</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>IND ENG 405</td>
<td>Product Realization</td>
<td></td>
</tr>
<tr>
<td>IND ENG 550</td>
<td>Control of Automated Manufacturing Systems</td>
<td></td>
</tr>
<tr>
<td>IND ENG 572</td>
<td>Reliability Engineering</td>
<td></td>
</tr>
<tr>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
<td></td>
</tr>
<tr>
<td>IND ENG 587</td>
<td>Lean Production Systems</td>
<td></td>
</tr>
<tr>
<td>IND ENG 590</td>
<td>Topics in Industrial and Systems Engineering:</td>
<td></td>
</tr>
<tr>
<td>IND ENG 699</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

**GER Distribution Requirement - 15 credits**

- Arts: 3 credits
- Humanities: 3 credits
- Social Science: 6 credits
- ENGLISH 310 | Writing, Speaking, and Technoscience in the 21st Century | 3 credits

**Free Electives - 7 credits**

**English Composition Requirement**

Satisfied by one of the following:

- Earning a satisfactory score on the English placement test or other appropriate test, as determined by the English Department, or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course

**Foreign Language Requirement**

Satisfied by one of the following:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

**Total Credits**

- 120 credits

1. CIV ENG 201 or CIV ENG 202 may substitute for CIV ENG 203 for transferring students.
2. COMPSCI 151, COMPSCI 240, COMPSCI 250, or MECHENG 101 may substitute for COMPSCI 202 for transferring students.
3. MECHENG 110 and MECHENG 111 may substitute for IND ENG 111 and IND ENG 112 for transferring students.
4. MATH 221 and MATH 222 may substitute for MATH 231, MATH 232, and MATH 233.
5. MATH 234 may substitute for ELECENG 234 for transferring students.
6. EAS 1 is open only to students who earn 3 or more credits. EAS 497 may be taken up to 6 credits.

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses.
in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical
aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

**Dean's Honor List**
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

**Joint Programs with Wisconsin Technical Colleges**

**Gateway Technical College**
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

**Milwaukee Area Technical College**
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

**Waukesha County Technical College**
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

**Industrial Engineering, Minor**
The minor in industrial and manufacturing engineering is ideally suited for:
- Business majors interested in strengthening their background in quantitative production operations management
- Computer Science majors interested in advanced optimization techniques
- Mechanical Engineering majors interested in development and implementation of integrated manufacturing systems
- Civil Engineering majors focusing on transportation where advanced optimization techniques may be useful

**Requirements - 21 Credits**
The program of study to obtain the minor in industrial and manufacturing engineering consists of four required courses and three elective courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 455</td>
<td>Operations Research I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 470</td>
<td>Methods Engineering</td>
<td>3</td>
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</table>

**Elective Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 350</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 370</td>
<td>Introduction to Operations Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 465</td>
<td>Operations Research II</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 475</td>
<td>Simulation Methodology</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 571</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 572</td>
<td>Reliability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
</tbody>
</table>

If you are interested in an Industrial and Manufacturing Engineering minor, contact Student Services at ceas-adv@uwm.edu or (414) 229-4667. Student Services is located in the EMS building, Room E386.
Integrated BS-MS Degree

Requirements

Admission

An Integrated BS-MS program is available for exceptional undergraduate students. In this program, students take 6 graduate credits while completing the BS degree.

Minimum admission requirements:

- 3.2 GPA.
- 36 credits or less remaining for the BS.
- Approval from their major department.

Application Process

- In consultation with their major professor, students must complete an Integrated BS/MS Program of Study Form. Students must indicate on the form which 6 graduate-level credits are being taken while completing the BS degree. Engineering students must have the form approved by the CEAS Office of Graduate Programs and Research. Computer Science students must have the form approved by the Graduate Program Representative for the CompSci MS Program. Students must have their Program of Study approved prior to the start of the final undergraduate semester and before starting graduate courses.
- Students must apply to the Graduate School. The MS degree requirements must be completed within five years of completion of the BS degree. Students in the Integrated Program are not required to take the GRE exam for admission to the Graduate School.

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Program of Study

Advanced standing will be granted to Integrated BS-MS students who have successfully completed six credits of pre-approved coursework at the graduate level with a grade of B or better. If a course has U/G status, the student must follow the syllabus and grading scale designated for graduate students. Once admitted to the Graduate School, students in the Integrated Program must meet the requirements listed in the following tables:

Master of Science in Computer Science

Thesis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits of 700 or higher-level courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of additional courses that carry graduate credit</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 990</td>
<td>Masters Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>30</td>
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</table>

Non-Thesis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 15 additional credits of 700 or higher-level courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of additional courses that carry graduate credit</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 995</td>
<td>Master's Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

The following is a common requirement for both options: The students must have taken six Computer Science courses (specified below) or their equivalent prior to completion of the MS Program.

Appropriate courses satisfy the common requirement with the approval of the department.

The six courses are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>COMPSCI 417</td>
<td>Introduction to the Theory of Computation</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 431</td>
<td>Programming Languages Concepts</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

At most six credits of the above courses with UG credit may be used to satisfy the courses requirements of the two options.

In the thesis option, the student must register for thesis credits (COMPSCI 990) in at least two semesters.

Time Limit

The MS degree requirements must be completed within five years of the first enrollment in the Integrated Program.

Graduation

Students who withdraw from the Integrated Program may continue in the BS program and be awarded the bachelor's degree.
Materials Engineering

In today’s world there is a constant demand for new materials of superior quality or with particular combinations of properties. It is the task of the materials engineer to use chemical and physical processes to provide new materials, more useful and valuable products, and improvements in the properties of existing materials on a cost-effective basis.

Materials engineering, like other branches of engineering, is based on mathematics, physics, and chemistry.

Necessarily, the engineer must work with every type of material, whether it be metal, glass, plastic, or naturally occurring rock or wood; and electrical conductors, semiconductors, or insulators, transparent or otherwise. The variety of available materials is as wide as the applications; to use them to good effect, the engineer must understand the nature of the substances that might be used for a particular purpose and the chemical and physical processes that are involved in their production.

Being in a central position in the development and design of new products, the materials engineer has excellent and varied career opportunities, extending from fundamental research through primary production processes and subsequent manufacturing to quality control and failure analysis.

Mission Statement

The Materials Department is committed to provide comprehensive undergraduate and graduate education in Materials Engineering, outstanding research, and service to our students, College, the University of Wisconsin-Milwaukee, and the community, as well as to active participation in professional societies.

Programs

• Materials Engineering, BSE (p. 552)
• Materials Engineering, Minor (p. 556)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nidal Abu-Zahra</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>Cleveland State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>George S. Baker</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benjamin Church</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Georgia Institute of Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hugo F. Lopez</td>
<td>Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xiaoli Ma</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joachim P. Neumann</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junjie Niu</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Zhejiang University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pradeep K. Rohatji</td>
<td>Wisconsin Distinguished Professor</td>
<td>ScD</td>
<td>Massachusetts Institute of Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dev Venugopalan</td>
<td>Associate Professor, Vice Provost</td>
<td>PhD</td>
<td>McMaster University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Materials Engineering, BSE

Everything we use is made of some material or combination of materials. Materials science is involved with all the processes that turn natural resources into useful products that impact all facets of our economy such as aerospace, electronics, transportation, communication, construction, recreation, entertainment and environment.

Concentrations

• Biomaterials
• Materials for energy application
• Materials processing
• Advanced materials characterization
• Metal casting
• Specific courses in ceramics, polymers, composites, and electronic materials

Research

Work with faculty (http://uwm.edu/engineering/classification/faculty/materials-science-engineering/) engaged in leading-edge research in areas such as:

• Polymer solar cells
• Materials for advanced drug delivery
• Manufacturing processes
• Structural analysis of aerospace materials
• Materials for energy storage
• Application of nanomaterials in construction
• Self-healing metals and advanced metal-matrix composites

Career Paths

Materials engineers work in a wide range of jobs across diverse industries. Many of today’s significant scientific and technological advances come from materials engineers.

• Research Scientist
• Application Technologist
• Materials and Process Engineer
• Quality Engineer
• Materials Engineering Manager
• Product Engineer
• Geotechnical / Materials Engineer
Accreditation
The Materials Engineering program is accredited by the Engineering Accreditation Commission of ABET. [https://www.abet.org](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilick%40uwcm.edu%7C6375ad43fb2946154ce60d868a20d99%7C0bca7ac3cb64ef89eb6de97603cf21%7C0%7C0%7C637374392516676446&sdata=HQcRF1xSAdpPYk%2BkOoP652KlLn3Fk6XJrFtgvVi7xDU%3D&reserved=0).

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major
Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Materials Engineering Curriculum
The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in materials engineering is 124.

Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>COMPSCI 240</td>
<td>Introduction to Engineering Programming 1</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 316</td>
<td>Thermodynamics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 330</td>
<td>Materials and Processes in Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 402</td>
<td>Physical Metallurgy</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 411</td>
<td>Materials Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 443</td>
<td>Transport Phenomena in Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 452</td>
<td>Ceramic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 453</td>
<td>Polymeric Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 490</td>
<td>Senior Design Projects I</td>
<td>1</td>
</tr>
<tr>
<td>MATLENG 491</td>
<td>Senior Design Projects II</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering 3</td>
<td>4</td>
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</tbody>
</table>

Chemistry Requirement

Select one of the following: 5-10

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105</td>
<td>General Chemistry for Engineering (Suggested)</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Physics Requirement

Select one of the following options: 10

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219 &amp; PHYSICS 220</td>
<td>Physics I: Calculus-Based, Studio Format and Physics II: Calculus-Based, Studio Format (recommended)</td>
<td></td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>
Materials Engineering, BSE

PHYSICS 210 & PHYSICS 215
Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)

GER Distribution Requirement
Arts 3
Humanities 3
Social Science 6
ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century 3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

Free Electives 2

English Composition Requirement
Satisfied by one of the following: 0-6
- Earning a satisfactory score on the English placement test or another appropriate test, as determined by the English Department;
- Earning a grade of C or higher in ENGLISH 102;
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course;

Foreign Language Requirement
Satisfied by one of the following: 0-8
- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college;
- Demonstrate ability by examination.

Technical Electives
24 credits of technical electives are to be selected from the following lists.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A1</td>
<td>Technical Electives (Structure)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select at least 2 courses from the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 380 Engineering Basis for Materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Selection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 461 Environmental Degradation of Materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG/MECHENG 465 Friction and Wear</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 481 Electronic Materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 483 Materials for Energy Systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 511 Advanced Materials Characterization</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 585 Advanced Biomaterials</td>
<td></td>
</tr>
<tr>
<td>Group A2</td>
<td>Technical Electives (Processing)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select at least 2 courses from the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 431 Welding Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 456 Metal Casting Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 457 Engineering Composites</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 460 Nanomaterials and Nanomanufacturing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATLENG 471 Heat Treatment of Materials</td>
<td></td>
</tr>
</tbody>
</table>

Select up to 6 credits from the following:
- Any BIO SCI course 150-level or above
- Any BME, CIV ENG, COMPSCI, ELECENG, IND ENG, MECHENG course 300-level or above
- CHEM 104, CHEM 221, or any CHEM course 300-level or above
- EAS 1 Engineering Co-op Work Period
- ENGLISH 206 Technical Writing
- ENGLISH 428 Strategic Writing for Organizations
- ENGLISH 429 Technical Communications and Professional Leadership
- ENGLISH 435 Rhetoric and Professional Writing
- Any GEO SCI course 300-level or above
- IND ENG 112 Engineering Drawing & Computer Aided Design/Drafting
- Any MATH course 300-level or above
- MATLENG 699 Independent Study
- MECHENG 110 Engineering Fundamentals I
- MECHENG 111 Engineering Fundamentals II
- Any PHYSICS course 250-level or above

1 Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

Minimum Requirements
Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors
Students wishing to major in more than one field can do so in two ways:
1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.

2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Joint Programs with Other Campuses

Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Materials Engineering, Minor

The Materials minor is directed toward students who want to strengthen their background in materials engineering.

Requirements

The 18-credit minor requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 316</td>
<td>Thermodynamics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 330</td>
<td>Materials and Processes in Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 402</td>
<td>Physical Metallurgy</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 electives (see below) 9

Total Credits 18

Electives

<table>
<thead>
<tr>
<th>Code</th>
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<td>MATLENG 380</td>
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<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
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<td>MATLENG 411</td>
<td>Materials Laboratory</td>
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<td>MATLENG 431</td>
<td>Welding Engineering</td>
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<td>MATLENG 452</td>
<td>Ceramic Materials</td>
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<td>MATLENG 453</td>
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<td>MATLENG 457</td>
<td>Engineering Composites</td>
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<td>Environmental Degradation of Materials</td>
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<td>MATLENG 465</td>
<td>Friction and Wear</td>
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<td>MATLENG 471</td>
<td>Heat Treatment of Materials</td>
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<td>MATLENG 481</td>
<td>Electronic Materials</td>
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<td>MATLENG 483</td>
<td>Materials for Energy Systems</td>
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<td>MATLENG 511</td>
<td>Advanced Materials Characterization</td>
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</tr>
<tr>
<td>MATLENG 690</td>
<td>Topics in Materials:</td>
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</tbody>
</table>

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667.

Mechanical Engineering

Mechanical engineering is one of the broadest and most general fields of engineering. Combining some of the basic elements found in electrical and civil engineering with more in-depth use of mechanical design and thermal science principles, a mechanical engineering education will provide its students with the tools required to solve a wide range of technological problems.

Mechanical engineers work on the design, development, analysis, production, and testing of a wide variety of devices, products, and systems. The devices and systems developed by mechanical engineers can be found in many fields, including energy conversion, power generation, environmental control, manufacturing, materials handling and processing, and transportation and construction equipment.

The mechanical engineering curriculum is based upon fundamental engineering science courses in mechanics, the thermal sciences, mechanical design, and controls. Students also take courses in experimentation, computer-aided engineering, vibrations, and mechatronics. A variety of technical elective courses are also offered. With these courses, a student can either pursue a general mechanical engineering education, or can tailor a program of study towards a concentration in either thermal sciences or mechanical systems.

Mission Statement

The mission of the UWM Mechanical Engineering Department is:

1. To provide quality educational programs for undergraduate and graduate students planning careers in mechanical engineering or related fields.
2. To create and disseminate knowledge through research, publications, and other scholarly activities.
3. To foster a close partnership with industry and government.
4. To engage in professional and academic service activities of value to the University and the community at large.

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Ryoichi S. Amano</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Davis</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Illya Avdeev</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Robert T. Balmer</td>
<td>Professor</td>
<td>ScD</td>
<td></td>
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<tr>
<td>S. H. Chan</td>
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<tr>
<td>Woo-Jin Chang</td>
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<td>PhD</td>
<td>Inha University</td>
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<tr>
<td>Junhong Chen</td>
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<tr>
<td>Roshan D’Souza</td>
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<td>PhD</td>
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<tr>
<td>Anoop K. Dhintra</td>
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<tr>
<td>Andrew Dressel</td>
<td>Lecturer</td>
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<tr>
<td>Kenneth F. Neusen</td>
<td>Professor</td>
<td>PhD, PE</td>
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<tr>
<td>Michael Nosonosky</td>
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<tr>
<td>Ronald A. Perez</td>
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<td>PhD, PE</td>
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<td>Krishna Pillai</td>
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<td>University of Delaware</td>
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<tr>
<td>Deyang Qu</td>
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<td>PhD</td>
<td>University of Ottawa, Canada</td>
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<tr>
<td>Mohammad H. Rahman</td>
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<td>John R. Reisel</td>
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<td>Kevin J. Renken</td>
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<td>Nathan Salowitz</td>
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<tr>
<td>Nathaniel Stern</td>
<td>Professor</td>
<td>PhD</td>
<td>New York University, Trinity College (Dublin, Ireland)</td>
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<tr>
<td>Yongjin Sung</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Keh C. Tsao</td>
<td>Professor</td>
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<tr>
<td>Mohamed Yahiaoui</td>
<td>Lecturer</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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</tr>
</tbody>
</table>

Mechanical Engineering, BSE

Mechanical engineering is one of the most general engineering fields. The engineer has the freedom to deal with virtually any aspect of the multi-faceted engineering process such as design, development, analysis, production and testing. The broad nature of the field also provides opportunities to work in various areas of interest ranging from energy conversion or environmental control to the production of transportation and construction equipment.

Concentrations

- General mechanical engineering
- Thermal sciences
- Mechanical systems

Research

Work with faculty engaged in leading-edge research in areas such as:

- Design optimization
- Nanotribology
- Technology innovation and entrepreneurship
- Sustainable design and manufacturing
- Marine robotics
- Biomimetic surfaces

Career Paths

Materials engineers work primarily in engineering services, research and development, manufacturing and the federal government.

- Senior Mechanical Engineer
- Propulsion Engineer
- Process Engineer
- Mechanical Design Engineer
- Product Development Engineer
- Aerospace Structural Engineer

Accreditation

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET: https://www.abet.org/
New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended). Admission directly to the major is selective.

Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or to intended status (Engineering-Intended or Computer Science-Intended).

Admission to the Major

Students admitted to Engineering-Intended or Computer Science-Intended may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Mechanical Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Mechanical Engineering is 128. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Advancement to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.
English Composition Requirement
Satisfied by one of the following:
- Earning a satisfactory score on the English placement test or other appropriate test, as determined by the English Department; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

Foreign Language Requirement
Satisfied by one of the following:
- Two years of a single foreign language in high school; or
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

Technical Electives
Select a minimum of 15 credits of technical electives from Groups A, B, and C as indicated below.

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<td>MECHENG 402</td>
<td>Thermo-Fluid Engineering</td>
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<tr>
<td>MECHENG 420</td>
<td>Intermediate Fluid Mechanics</td>
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<td>MECHENG 462</td>
<td>Intermediate Design of Machinery</td>
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<td>MECHENG 463</td>
<td>Introduction to Finite Elements</td>
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<td>MECHENG 475</td>
<td>Vibrations in Mechanical Design</td>
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<tr>
<td>Group B Technical Electives</td>
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<td>Intermediate Strength of Materials</td>
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<td>IND ENG 455</td>
<td>Operations Research I</td>
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<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
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<td>MECHENG 405</td>
<td>Product Realization</td>
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<td>MECHENG 411</td>
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<td>MECHENG 415</td>
<td>Modern Thermomanufacturing Processes</td>
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<td>MECHENG 435</td>
<td>Power Plant Theory and Design</td>
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<td>MECHENG 436</td>
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<td>Processing of Plastics</td>
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<td>MECHENG 460</td>
<td>Nanomaterials and Nanomanufacturing</td>
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<td>MECHENG 465</td>
<td>Friction and Wear</td>
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<td>MECHENG 466</td>
<td>Mechanics of Composite Materials</td>
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<td>MECHENG 469</td>
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<tr>
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<td>MECHENG 472</td>
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<td>MECHENG 476</td>
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<td>MECHENG 584</td>
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<td>MECHENG 699</td>
<td>Independent Study</td>
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</table>

1 MATH 221, MATH 222 and two free elective credits may substitute for MATH 231, MATH 232 and MATH 233.

Minimum Requirements
Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.
Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Honors in the College of Engineering and Applied Science**

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for
honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

**Joint Programs with Wisconsin Technical Colleges**

**Gateway Technical College**
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

**Milwaukee Area Technical College**
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

**Waukesha County Technical College**
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

**Mechanical Engineering, Minor**
The minor in mechanical engineering is designed for students in engineering, architecture, and physics. The minor is not available to mechanical engineering majors.

**Requirements**
- 20 credits from Mechanical Engineering courses 301 and above.
- Minimum of 12 credits of the minor coursework must be completed at UWM.
- If a bachelor’s degree was obtained at another institution, upon completion of the minor requirements the student will be awarded a Certificate of Minor.
FRESHWATER SCIENCES (SCHOOL OF)

About Freshwater Sciences
The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic, and policy aspects of freshwater.

Programs
- Applied Urban Aquaculture, Undergraduate Certificate (p. 563)
- Freshwater Sciences and Technology, MS (Thesis) (p. 564)
- Freshwater Sciences and Technology, MS: Professional Science Track (p. 565)
- Freshwater Sciences, PhD (p. 567)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carmen Aguilar</td>
<td>Associate Scientist</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
<tr>
<td>Fred Binkowski</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
<tr>
<td>Harvey Bootsma</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Manitoba</td>
</tr>
<tr>
<td>Tracy Boyer</td>
<td>Associate Professor, Director of the Center for Water Policy</td>
<td>PhD</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Arthur Brooks</td>
<td>Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>Michael Carvan</td>
<td>Shaw Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Russell Cuhel</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology and Woods Hole Oceanographic Institution</td>
</tr>
<tr>
<td>Dong-Fang Deng</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>University of California - Davis</td>
</tr>
<tr>
<td>Tim Grundl</td>
<td>Professor, Associate Dean of Academics</td>
<td>PhD</td>
<td>Colorado School of Mines</td>
</tr>
<tr>
<td>Laodong Guo</td>
<td>Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>John Janssen</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
</tr>
<tr>
<td>Jerry Kaster</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Colorado</td>
</tr>
<tr>
<td>Jenny Kehl</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Colorado at Boulder</td>
</tr>
<tr>
<td>Rebecca Klaper</td>
<td>Professor, Director of the Great Lakes Genomics Center</td>
<td>PhD</td>
<td>University of Georgia</td>
</tr>
<tr>
<td>J. Val Klump</td>
<td>Professor, Dean</td>
<td>PhD</td>
<td>University of North Carolina - Chapel Hill</td>
</tr>
<tr>
<td>James Lubner</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
<tr>
<td>Sandra McLellan</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Cincinnati Medical Center</td>
</tr>
<tr>
<td>Ryan Newton</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
</tr>
<tr>
<td>James Price</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>The University of New Mexico</td>
</tr>
<tr>
<td>Osvaldo Jhonatan Sepulveda Villet</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Toledo</td>
</tr>
<tr>
<td>James Waples</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
</tr>
</tbody>
</table>

Contact Information
School of Freshwater Sciences
Great Lakes Research Facility
600 E. Greenfield Avenue

Milwaukee, WI 53204
Phone: (414) 382-1700
freshwater@uwm.edu
Applied Urban Aquaculture, Undergraduate Certificate

The Certificate in Applied Urban Aquaculture is open to all students seeking a bachelor’s degree from UWM, as well as those who previously received a bachelor’s degree from UWM or any other accredited college or university. Urban aquaculture techniques developed at UWM School of Freshwater Sciences promote the use of integrated, fish and vegetable production systems that utilize green technology, water reuse, zero effluent discharge, and energy conservation.

Learn concepts, apply methods, and develop solutions:

- Monitor water chemistry and microbial activity
- Perform harvesting and husbandry techniques
- Identify and diagnose pathogens and diseases
- Operate and oversee life support and recirculating aquaculture systems
- Create and implement aquaculture operating procedures

For more information contact Dr. Jhonatan Sepulveda, Assistant Professor of Freshwater Sciences, Certificate Coordinator, at sepulveo@uwm.edu.

Application Deadlines

- Fall 2018 – March 1, 2018
- Spring 2019 – December 15, 2018

Admissions

To be admitted to the university as non-degree students, individuals must meet regular university admission requirements (p. 15). Students who are not currently enrolled and have not applied to UW-Milwaukee in the past need to fill out an online application and pay the application fee. All applicants must submit transcripts that provide evidence of the following required coursework (or equivalent) prior to admission:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

To formally declare your intent to pursue the Certificate in Applied Urban Aquaculture, complete the Declaration Form and make an appointment with the certificate coordinator.

Program Requirements

Students must complete 15 credits (5 courses) with a minimum grade point average of 2.75. Courses for this certificate may not be taken on a credit/no credit basis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 562</td>
<td>Principles of Aquaculture Systems</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 563</td>
<td>Finfish Aquaculture and Nutrition Principles</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 564</td>
<td>Water Quality in Aquaculture</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits earned at other accredited institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee. This information should be included on the Declaration Form for approval when you apply to the certificate program.

To Apply

I have a Bachelor’s Degree and am not currently enrolled in a degree program.

1. Contact Jhonatan Sepulveda Villet (sepulveo@uwm.edu) to review unofficial transcripts for prerequisites.
2. Apply online as a degree seeking certificate student at https://apply.wisconsin.edu/ and submit official transcripts. (There is no application fee for former UWM students; all others must pay the fee.
3. SFS reviews application and submits decision to Office of Undergraduate Admissions.

I am enrolled at another UW System school and have achieved at least junior status.

1. Contact Jhonatan Sepulveda Villet (sepulveo@uwm.edu) to review unofficial transcripts for prerequisites.
2. Your current undergraduate advisor completes a pre-authorization form.
3. Apply online as a degree seeking certificate student at https://apply.wisconsin.edu/ and submit official transcripts.
4. SFS reviews application and submits decision to Office of Undergraduate Admissions.

I am at least a junior at UWM.

1. Contact Jhonatan Sepulveda Villet (sepulveo@uwm.edu) to review unofficial transcripts for prerequisites.
2. SFS reviews application and submits decision to Office of Undergraduate Admissions.
4. Certificate plan is added to your PAWS account.

There is no additional application fee for current UWM students.
Gainful Employment
The Applied Urban Aquaculture Program is subject to gainful employment regulations (http://uwm.edu/financialaid/apply-for-aid/eligibility/non-degree-students/).

U.S. Department of Education Gainful Employment Certificate Disclosure Information. (http://home.freshwater.uwm.edu/aquaculture_disclosure/)

Freshwater Sciences and Technology, MS (Thesis)
The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Prerequisite Coursework
The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant’s academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

Other Admission Requirements
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. A bachelor’s degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
2. A minimum GPA of 3.0.
3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (This requirement is optional for Professional Track applicants.).
4. Three letters of recommendation from persons familiar with the applicant’s scholarship and/or research potential.

The student must indicate in the Statement of Purpose (part of the formalized application process) the track to which they are applying and the intended focus of their MS studies. The statement must also indicate how their previous education has prepared them for graduate studies.

Critical skills required for the successful completion of the MS program include research design, data analysis, and effective communication of research results.

Credits and Courses
For students admitted Spring 2018 and after
Minimum degree requirement is 31 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose three of the following</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 513</td>
<td>Field Experimentation and Analysis in Freshwater Sciences</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 514</td>
<td>Analytical Techniques in Freshwater Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Required courses | 4 |
| FRSHWTR 890 | Science Communication |
| FRSHWTR 900 | Colloquium in Freshwater Sciences |

Electives | 9 |
| Select 9 credits in consultation with the students major advisor |

Master’s Research and Thesis Credits | 6 |
| FRSHWTR 985 | Master’s Research and Thesis (Up to 6 credits) |

Total Credits | 31 |

For students admitted Fall 2017 and before
Minimum degree requirement is 30 graduate credits.
passes, fails, or must repeat the examination or defense. At the discretion of the Committee, a student who fails the defense or examination may be allowed one additional attempt at successful completion.

The thesis is conducted with oversight from the student’s Advisory Committee. The thesis research is expected to be of a caliber sufficient for publication in a peer-reviewed journal. Satisfactory completion of the thesis, including successful defense, is required for graduation. Up to six credits may be awarded for thesis research. Please see the Graduate School thesis and dissertation formatting requirements (http://uwm.edu/graduateschool/thesis-dissertation-formatting/) for further information.

**Thesis Defense**
The thesis defense is a public presentation of the thesis research followed by an oral defense administered by the Advisory Committee.

**Time Limit**
All degree requirements must be completed within five years of initial enrollment.

**Freshwater Sciences and Technology, MS: Professional Science Track**
The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student’s major professor.

**Admission Requirement**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Prerequisite Coursework**
The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant’s academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

**Other Admission Requirements**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. A bachelor's degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
2. A minimum GPA of 3.0.
3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (This requirement is optional for Professional Track applicants.).
4. Three letters of recommendation from persons familiar with the applicant’s scholarship and/or research potential.

The student must indicate in the Statement of Purpose (part of the formalized application process) the track to which they are applying and the intended focus of their MS studies. The statement must also indicate how their previous education has prepared them for graduate studies.

Critical skills required for the successful completion of the MS program include research design, data analysis, and effective communication of research results.

**Credits and Courses**

**For students admitted Spring 2018 and after**
Minimum degree requirement is 32 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 513</td>
<td>Field Experimentation and Analysis in Freshwater Sciences</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 514</td>
<td>Analytical Techniques in Freshwater Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 900</td>
<td>Colloquium in Freshwater Sciences</td>
<td>1</td>
</tr>
<tr>
<td>FRSHWTR 810</td>
<td>Professional Development for Water Leaders</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 890</td>
<td>Science Communication</td>
<td>3</td>
</tr>
<tr>
<td><em>Select one of the following:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**
Select 9 credits in consultation with the students major advisor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 500</td>
<td>Graduate Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits** 32

**For students admitted Fall 2017 and before**
Minimum degree requirement is 36 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
</tr>
<tr>
<td><em>Select two of the following:</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>6</td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td></td>
</tr>
</tbody>
</table>

**Required Science Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 513</td>
<td>Analytical Techniques in Freshwater Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 514</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 723</td>
<td>Managing and Negotiating Across Cultures</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td></td>
</tr>
<tr>
<td>PHILO 337</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**
Select 12 credits in consultation with the students major professor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 810</td>
<td>Professional Development for Water Leaders</td>
<td>9</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 723</td>
<td>Managing and Negotiating Across Cultures</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td></td>
</tr>
<tr>
<td>PHILO 337</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 36

Additional Requirements

**Major Professor as Advisor**
Upon admission to the program, each student in the professional track will be assigned an initial advisor based on their background. The initial advisor will provide counseling to the students and help to identify goals and objectives of their graduate education. Students should identify their permanent advisor during the first semester in the program. The advisor will oversee the student’s internship.

A plan of study is required and planned by the student in consultation with his or her advisor and the internship coordinators of the program. The plan of study identifies the planned courses and timeline for completion of the degree coursework and internship.

**Internship**
All students in the professional science track are required to participate in an internship research experience, generally between the first and second
years of the program. Internship experiences focus on complex regional, national, and global water problems and often involve authentic, practical problems in the field. The program coordinators provide resources and internship opportunities with industry, government, and non-profit organizations. It is the responsibility of the student and advisor to identify the internship and the direct supervisor within a specific organization and submit a proposal that identifies goals and objectives of the internship. Proposals will be reviewed and approved by the advisor. Alternatively, a group project may occur in lieu of an internship and should provide students with training and experience in performing professional-level work that involves managing group dynamics and applying technical expertise to solve complex, multidisciplinary water-related problems.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Freshwater Sciences, PhD
The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student’s major professor.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Prerequisite Coursework
The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following four areas: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant’s academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

Other Requirements
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

1. A degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy or other appropriate natural science, social science or engineering discipline.
2. An undergraduate GPA of at least 3.0 (4.0 basis).
4. Three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

A master’s degree is not a prerequisite for admission to the PhD program.

Students in the PhD program must be accepted by a faculty member who will serve as the major professor, and be primarily responsible for matriculation. Acceptance or agreement by a faculty member does not constitute formal acceptance into the School of Freshwater Sciences. Applicants are strongly encouraged to communicate with prospective major professors early in the admission process.

Reapplication
A student in the MS program, or who receives the master’s degree at UWM, must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses
For students admitted Spring 2018 and after
Students must earn 54 credits beyond the bachelor’s degree, of which 24 credits may be taken from formal coursework completed as part of a master’s degree. A minimum of 27 credits must be earned in residence at UWM. Students may take up to a maximum of 9 credits of independent study counting toward the degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 890</td>
<td>Science Communication</td>
<td>5</td>
</tr>
<tr>
<td>FRSHWTR 900</td>
<td>Colloquium in Freshwater Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Taken twice, 1 credit each)</td>
<td></td>
</tr>
<tr>
<td>Select four of the following</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Ecosystem Dynamics</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td></td>
</tr>
<tr>
<td>Select one of the following</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
A Program of Study, including coursework and proposed research, is planned by the student in consultation with the major professor, and must be approved by the Committee. A student must present an annual progress report and an updated plan of study to his or her Doctoral Advisory Committee. For students entering with advanced degrees, some of the coursework may already be completed. Requests for counting previously taken courses toward the degree requirements will be evaluated on a case-by-case basis. A minimal grade point average of 3.00 must be earned in coursework, not including research or seminars.

For students admitted Fall 2017 and before
You must earn 54 credits beyond the bachelor’s degree, of which 24 credits may be taken from formal coursework completed as part of a master’s degree.

You are required to take two integrative Seminar courses (FRSHWTR 901) and two Freshwater Sciences Practicum courses (FRSHWTR 512), as well as Quantitative Freshwater Analysis (FRSHWTR 504). In addition, you must complete at least 9 credits of dissertation research. Elective courses are selected in consultation with your PhD committee. A minimum of 27 credits must be earned in residence at UWM. You may take up to a maximum of 9 credits of independent study counting toward the degree.

You must be proficient in at least three of the four areas of study: 1. freshwater systems, 2. human/ecosystem health, 3. freshwater technology, and 4. freshwater policy and economics. To meet this requirement, core courses are offered in each of these respective areas:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements

Residence
The student must meet Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. Appointment of a major professor will be based on compatibility between a student’s preferred research area or area of specialization and a professor’s area of specialization.

PhD Advisory Committee
The membership of the PhD Advisory Committee will be established by the end of the student’s first year. The Committee must consist of five members including the doctoral student’s advisor as chair (or co-advisors as co-chairs). A minimum of three members must be from UWM, at least two graduate faculty members from the School of Freshwater Sciences, and two additional members, with consideration given to the inclusion of an external, non-UWM member. The Committee must meet at least once a year to monitor and formally report to the faculty on the student’s academic and research progress.

Doctoral Preliminary Examination
The preliminary examination must be passed by the end of the second year for the student to continue in the program. Extensions of this deadline must be approved by the PhD Advisory Committee. The examination is in two parts: written and oral. The content of the examination is determined in advance by the student’s Advisory Committee, and will include subject matter that is broadly related to the area of research that the student will specialize in, as well as content related to the core courses. The Doctoral Committee decides by simple majority whether the student passes, fails, or must retake part or all of the examination. At the discretion of the Committee, a student who fails the examination may be allowed one additional attempt of all or part of the examination. After successful completion of the preliminary examination, the student concentrates on the development and execution of original research.

Dissertation Proposal Hearing
Following successful completion of the doctoral preliminary examination, the student submits a written dissertation proposal to the student’s PhD Advisory Committee. The proposal must be submitted within one semester of the successful completion of preliminary exams, and defended by the end of the following semester. Extensions of this deadline must be approved by the PhD Advisory Committee.

Dissertation Status
Specific requirements which must be completed before the Graduate School places a doctoral student in dissertation status are described in the Doctor of Philosophy Degree (http://uwm.edu/graduateschool/doctoral-requirements/) requirements section.

Dissertation
During the final year of study, the candidate must present a public seminar on the dissertation research and subsequently prepare and successfully defend a dissertation reporting the results of the candidate’s research to the Committee. The original research findings embodied in this dissertation are expected to be accepted for publication in one or more refereed journals.

Please see the Graduate School thesis and dissertation formatting requirements for further information.

Dissertation Defense
As the final step toward the degree the candidate must defend the dissertation before the PhD Advisory Committee.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
GENERAL STUDIES (COLLEGE OF)

The College of General Studies serves as the academic home for the Associate of Arts and Sciences (AAS) degree at UW-Milwaukee. The AAS curriculum provides a general education core that serves as the foundation for bachelor's degree programs. The College offers courses at branch locations in Waukesha and Washington County.

Programs

- Arts and Sciences, AAS (p. 570)
- Arts and Sciences, AAS (Collaborative Online Program) (p. 576)

Policies and Regulations

Grade Appeal Policy

This grade appeal policy is based on the following principles: (1) the instructor has responsibility for assignment of grades; (2) students should be free from prejudicial or capricious grading; and, (3) no grade may be assigned or changed without departmental faculty authorization. The following steps constitute the procedure to be followed by a UW-Milwaukee College of General Studies student wishing to appeal a grade:

1. A grade appeal should normally be initiated within 30 days of receipt of the grade report. Prior to making a formal appeal, the student should check with the instructor to make sure that no clerical error has been made.

2. The student shall submit a written appeal to the instructor detailing the basis on which the student believes the grade ought to have been different. During this first phase of the process, the student and instructor might meet to discuss the basis for the grade, if both are willing to do so. The instructor shall normally respond in writing to the student within 30 days.

3. The student may continue the appeal process by submitting his/her case, including copies of all correspondence to date, to the chair of the appropriate academic department or, in the case of a conflict of interest, to a designee appointed by the department’s executive committee. This must be done within 30 days of receiving a written response from the instructor, and the department chair or designee shall acknowledge the appeal in writing with a copy to the instructor.

4. Each department must have a review process and review body to adjudicate grade appeals. The review body should examine available information to determine if any of the following grounds for changing a grade are present: inconsistent treatment, procedural errors, capricious judgments, or use of inappropriate criteria. The review body may request additional information from the instructor or student and/or may ask to see copies of the student’s work. The department shall conclude its review within 60 days. After first securing the endorsement of the department chair, the chair of the reviewing body shall inform the instructor and student of the outcome of the review with copies to the Department Chair, the Assistant Dean for Student Affairs, and the Associate Dean for Academic Affairs. If the review process finds with the student and a change in grade is recommended, the department chair or designee shall notify the instructor, discuss the findings and suggest that the instructor change the grade and so notify the student. Should the instructor decline to change the grade, the chair or designee shall forward the findings to the Associate Dean for Academic Affairs who will implement the grade change. If the review upholds the original grade, the department chair or designee, having already endorsed the review body’s report, need take no further action.

5. The student may appeal a decision upholding the original grade to the Associate Dean for Academic Affairs, who shall examine the record created by the departmental review body, and shall uphold the decision of that body unless he or she finds:
   a. The evidence of record does not support the findings and recommendations of the departmental review body;
   b. Established procedures were not followed by the departmental review body and material prejudicial to the student resulted;
   c. The decision was based on factors proscribed by state or federal law regarding equal educational opportunities; or
   d. The decision was arbitrary and capricious.

Should the review by the Associate Dean for Academic Affairs find any of the above, he or she will remand the appeal to the department for action consistent with the finding.

UW College Courses Online

UW College Courses Online offers more than 125 fully accredited online courses. Courses are taught by UW faculty and widely transferable. Online courses through UW College Courses Online can help you complete your Associate of Arts and Science degree (p. 570), earn a certificate, or fulfill requirements for other degree programs. See the UW College Courses Online website (https://online.uwc.edu) for more information.

Honors Program

The College of General Studies Honors Program is a challenge extended to our best students. Through enriched course content and a closer association with professors and other honor students, the college experience is broadened and enhanced through research, creative thought and independent learning. Students who have participated felt they were better prepared for subsequent university work and the ability to earn an Honors Degree at a four-year campus.


Who Qualifies?

This program is designed for highly motivated, above-average associate degree students who are new or continuing at UWM.

Those who are eligible have accomplished at least one of the following:

- Graduated in the top 15 percent of their high school class
- Been enrolled in the UW System for at least one semester and earned a minimum GPA of 3.5
- Have an ACT score of 27 or higher
- If you transfer from a college or university outside of the UW System, you may participate in the Honors Program if your GPA is 3.4 or above.

If you do not meet these criteria, you may appeal to the College of General Studies Academic Actions Committee for admission to the program.

Continuing students will be invited to participate in the program after completing 12 credits or more with a 3.5 GPA or better. To continue in
the program students need to maintain a GPA of 3.25 or better each semester.

**Honors Awards**

If you are in the Honors Program, you may earn an Associate of Arts and Sciences Degree (p. 570) with Honors. To do this, the following must be accomplished:

- Earn a cumulative grade point average of 3.25
- Complete the Associate of Arts and Sciences Degree requirements (p. 570)
- Earn a grade of "B" or better in 12 of the degree credits earned in honors courses
- Earn at least six of the 12 honors credits, across the humanities, fine arts, social sciences, and/or mathematics/natural sciences

Those who have met the Associate of Arts and Sciences Degree with Honors requirements, need to apply for the degree the semester prior to completion.

**Phi Theta Kappa**

Honors students with a 3.5 or above cumulative grade point average might wish to join Phi Theta Kappa (PTK), a national two-year honor society. Eligible Students will receive an invitation to join PTK (http://www.ptk.org/).

**Transferring**

Many UW System four-year campuses have honors programs to obtain a bachelor’s degree with honors. Others campuses may have enrichment studies which do not earn a special degree.

**How To Register**

You can apply online for the Honors Program (http://waukesha.uwc.edu/academics/special-programs/honors/application-form/). For more information about the program, please e-mail ellyn.lem@uwc.edu or write to:

Professor Ellyn Lem
Professor of English
UWM at Waukesha
1500 N. University Drive
Waukesha, WI 53188

Anyone may enroll in courses for honors credit, but students not in the Honors Program must have the consent of the class instructor. You can add honors after registration in the first two weeks of classes by getting the signature of the instructor. You can drop honors at any time before the end of the semester. If you want to take a course for honors even though it is not listed for honors credit, you often can arrange to take it for honors by consulting the professor.

**Arts and Sciences, AAS**

The Associate of Arts and Sciences degree is the foundation for many college majors. The degree signals to employers that the degree holder has advanced skills in communication and critical thinking skills. These skills are paramount for success in today’s workplace. The degree gives the recipients the foundation for acquiring new knowledge, which is vital to pursuing a bachelor’s degree and to adapting to change in the work environment. The Associate degree is confirmation of an important accomplishment on the road to a bachelor’s degree. Students who complete the Associate of Arts and Sciences degree are considered to have satisfied the General Education Requirements for a bachelor’s degree from UWM.

The AAS degree is also offered as an online, flexible option (https://flex.wisconsin.edu/degrees-programs/associate-degree-online/). This allows you to earn the credits you need at your own pace, on your schedule, building on knowledge you already have.

**Requirements**

A minimum of 60 credits is required. At least 36 of the 60 credits, or, at least 12 of the final 24 credits must be earned at UWM. Students must have a cumulative GPA of 2.0 in credits attempted at UWM.

The Associate of Arts and Sciences degree requires that core requirements in writing and mathematics be completed as well as a distribution of credits in breadth of knowledge categories. The breadth categories in the degree are defined on the General Education (p. 29) page.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS ENG 102</td>
<td>Critical Writing, Reading, and Research</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS MAT 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>CGS MAT 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 104</td>
<td>Quantitative Reasoning</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 108</td>
<td>Quantitative Reasoning</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 110</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

**Breadth Categories**

**Arts and Humanities**

9

Must include:

- 1 Arts course
- 1 Humanities course

**Mathematics and Natural Sciences**

11

Must include:

- 8 credits in 2 Natural Science areas
- 1 laboratory science course
- Remaining credits can be any MS or NS courses

**Social Sciences**

9

Must include credits from at least 2 disciplines

**Application and Performance**

3

**Cultural Diversity**

3

Courses may be counted toward another breadth category

**Interdisciplinary Studies**

3

Courses may be counted toward another breadth category

**Electives**

A student who has met the core requirements and the other breadth category minimums may complete the 60 credit minimum requirement with courses in this category.
Students must achieve a grade of C or better or receive an exemption.

- Exemption from the Core Writing requirement can be achieved by submitting a portfolio of written work that demonstrates achievement of the English 102 learning outcomes. Only students who have achieved an appropriate score on the English Placement Test (or other appropriate test, as determined by the Arts and Humanities Department) are eligible.
- Exemption from the Core Math requirement can be achieved by earning a placement code of at least 30 on the Mathematics Placement Test (or other appropriate test, as determined by the Math and Natural Sciences Department).

Courses used to satisfy the writing and mathematics requirements and their prerequisites may not be used to satisfy a breadth requirement except that:

1. A core course or its prerequisite will be eligible for Interdisciplinary Studies credit when it is linked with another course and meets the criteria and procedures specified in Institutional Policy 101.01 for Interdisciplinary Studies (https://tinyurl.com/q15arn6/).

2. A student who earns credit in one of the sequences below with a grade of C or better in at least one of the courses may use the other course to satisfy part of the Mathematics and Natural Sciences breadth requirement.

### Anthropology Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS ANT 100</td>
<td>Introduction to Anthropology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choose 3 additional Anthropology courses:</td>
<td>9-11</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 102</td>
<td>Discovering our Past: An Introduction to Archaeology and the Prehistoric World</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 104</td>
<td>Introduction to Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 105</td>
<td>Introduction to Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 150</td>
<td>Food, Culture, and Identity ES</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 314</td>
<td>Indians of North America</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 343</td>
<td>Religion, Magic and Witchcraft</td>
<td></td>
</tr>
<tr>
<td>CGS ANT 350</td>
<td>Introduction to Medical Anthropology: Health and Healing</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 12-14

### Art Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS ART 101</td>
<td>Introduction to Drawing</td>
<td>6</td>
</tr>
<tr>
<td>CGS ART 112</td>
<td>Three-Dimensional Design</td>
<td></td>
</tr>
<tr>
<td><strong>Choose 1 of the following:</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CGS ART 181</td>
<td>Survey: Ancient and Medieval Art</td>
<td></td>
</tr>
<tr>
<td>CGS ART 183</td>
<td>Survey: Renaissance - Modern Art</td>
<td></td>
</tr>
<tr>
<td>CGS ART 187</td>
<td>Survey: Modern Art</td>
<td></td>
</tr>
<tr>
<td>CGS ART 188</td>
<td>Survey: Modern Architecture and Design</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 12

### Biological Sciences Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS MAT 102 &amp; CGS MAT 105</td>
<td>Mathematical Literacy for College Students II and Introduction to College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 102 &amp; CGS MAT 110</td>
<td>Mathematical Literacy for College Students II and College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 102 &amp; CGS MAT 116</td>
<td>Mathematical Literacy for College Students II and College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 103 &amp; CGS MAT 105</td>
<td>Contemporary Applications of Mathematics and Introduction to College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 103 &amp; CGS MAT 110</td>
<td>Contemporary Applications of Mathematics and College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 103 &amp; CGS MAT 116</td>
<td>Contemporary Applications of Mathematics and College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 104 &amp; CGS MAT 105</td>
<td>Quantitative Reasoning and Introduction to College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 104 &amp; CGS MAT 110</td>
<td>Quantitative Reasoning and College Algebra</td>
<td>6</td>
</tr>
<tr>
<td>CGS MAT 104 &amp; CGS MAT 116</td>
<td>Quantitative Reasoning and College Algebra</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits: 3-5

- A student who earns a C or better in the course below may use the course to satisfy part of the Mathematics and Natural Sciences breadth requirement.

### Emphases

Students pursuing the Associate of Arts and Sciences Degree (AAS) may elect to receive a degree with emphasis: a concentration of coursework in a given discipline or in more than one discipline, in the case of an interdisciplinary emphasis. Students seeking an Associate of Arts and Sciences Degree with an emphasis must successfully complete the AAS requirements and the specific emphasis requirements.
### Business Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS BUS/CGS ENG 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>CGS BUS 201</td>
<td>Introductory Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CGS BUS 230</td>
<td>Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>CGS BUS/CGS ECO 243</td>
<td>Economic and Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CGS ECO 203</td>
<td>Economics - Macro</td>
<td>3</td>
</tr>
<tr>
<td>CGS ECO 204</td>
<td>Economics - Micro</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 1 of the following courses: 3-4

- CGS BUS 202 Intermediate Accounting
- CGS BUS 204 Managerial Accounting

**Total Credits**: 12-20

### Chemistry Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS CHE 145</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CGS CHE 155</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CGS CHE 343</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CGS CHE 363</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 16

### Communication Arts Emphasis

Completion of the following courses will fulfill the requirements for this emphasis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS CTA 103</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses**

Choose 9 credits from the following: 9

- CGS CTA 101 Introduction to Interpersonal Communication
- CGS CTA 115 Introduction to Business and Professional Communication
- CGS CTA 150 Introduction to Film
- CGS CTA 201 Introduction to Mass Communication
- CGS CTA 210 Introduction to Intercultural Communication
- CGS CTA 218 Popular Culture in the Media
- CGS CTA 294 Internship in Communication and Theatre Arts
- CGS CTA 298 Topics in Speech and Dramatic Arts

**Total Credits**: 12

### Education Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS EDU 201</td>
<td>Concepts, Issues, and Field Experience in Education</td>
<td>3</td>
</tr>
<tr>
<td>CGS EDU 230</td>
<td>Educational Psychology</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Choose 1 of the following: 3-4

- CGS PSY 201 Introductory Psychology
- CGS PSY 202 Introductory Psychology
- CGS EDU 300 The Exceptional Individual

Choose 1 of the following: 3

- CGS PSY 250 Life Span Developmental Psychology
- CGS PSY 360 Psychology of Childhood and Adolescence
- CGS HIS 101 History of the United States: From the Era of the Columbian Exchange to the Era of the Civil War
- CGS HIS 102 History of the United States: From the Era of the Civil War to the Present ES
- CGS POL 104 American Government and Politics

**Total Credits**: 12-14

### Engineering Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS EGR 105</td>
<td>Engineering Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CGS EGR 201</td>
<td>Statics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose a minimum of 1 of the following: 3-5

- CGS EGR 203 Mechanics of Materials
- CGS CPS 245 Computer Science I: Object-Oriented Programming

Choose a minimum of 2 of the following: 6

- CGS EGR 110 Engineering Graphics with Computer Aided Drafting
- CGS EGR 202 Dynamics
- CGS EGR 282 Engineering Economics
- CGS ECO 204 Economics - Micro

**Total Credits**: 15-17

### Environmental Studies Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS CHE 125</td>
<td>Introductory Chemistry</td>
<td>4-5</td>
</tr>
<tr>
<td>CGS BIO 101</td>
<td>Concepts of Biology</td>
<td></td>
</tr>
<tr>
<td>CGS BIO 150</td>
<td>Foundations of Biological Sciences I</td>
<td></td>
</tr>
<tr>
<td>CGS CHE 145</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CGS GEO 123</td>
<td>Physical Geography, Weather and Climate</td>
<td></td>
</tr>
</tbody>
</table>

Choose 1 of the following: 3-4

- CGS BIO 191 Environmental Science
- CGS BIO 310 General Ecology
- CGS INT 290 Special Topics in Interdisciplinary Studies (Topic: Global Sustainability)

Choose 1 of the following: 3
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS PHI 244</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>CGS INT 290</td>
<td>Special Topics in Interdisciplinary Studies (Topic: Honor's Seminar)</td>
<td></td>
</tr>
<tr>
<td>CGS SOC 355</td>
<td>Sociology of the Environment</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 117</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CGS MAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>CGS PSY 210</td>
<td>Statistical Methods in Psychology</td>
<td></td>
</tr>
<tr>
<td>CGS ECO 243</td>
<td>Economic and Business Statistics</td>
<td></td>
</tr>
<tr>
<td>CGS ECO 101</td>
<td>Intro to Economics</td>
<td></td>
</tr>
<tr>
<td>CGS ECO 203</td>
<td>Economics - Macro</td>
<td></td>
</tr>
<tr>
<td>CGS ECO 204</td>
<td>Economics - Micro</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 13-15

### Gender, Sexuality, and Women's Studies Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CGS GSW 101</td>
<td>Introduction to Gender, Sexuality, and Women's Studies (IS)</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 102</td>
<td>Women's Voices</td>
<td></td>
</tr>
</tbody>
</table>

Elective Courses | 9

Choose 3 of the following courses (note: CGS GSW 102 can be counted as an elective if CGS GSW 101 was also completed):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS GSW 201</td>
<td>Introduction to LGBTQ Studies</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 202</td>
<td>Feminist Philosophy</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 203</td>
<td>Women in Popular Culture ES</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 204</td>
<td>Introduction to Masculinities</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 210</td>
<td>Women's Health &amp; Sexuality in Society ES</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 231</td>
<td>Sex, Power and Public Policy</td>
<td></td>
</tr>
<tr>
<td>CGS GSW 279</td>
<td>Women Writers</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 12

### Geography Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS GEO 123</td>
<td>Physical Geography: Weather and Climate</td>
<td>4-5</td>
</tr>
<tr>
<td>CGS GEO 124</td>
<td>Physical Geography: Landforms</td>
<td>4-5</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CGS GEO 101</td>
<td>Introduction to Cultural Geography</td>
<td></td>
</tr>
<tr>
<td>CGS GEO 110</td>
<td>World Regional Geography</td>
<td></td>
</tr>
</tbody>
</table>

Elective Course - Student/Advisor choice | 3-5

CGS GEO XXX (Any other CGS GEO course) | 3-5

Total Credits: 14-18

### Geosciences Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS GLG 102</td>
<td>Historical Geology</td>
<td>4-5</td>
</tr>
<tr>
<td>CGS GLG 101</td>
<td>Physical Geology</td>
<td>4-5</td>
</tr>
<tr>
<td>or CGS GLG 169</td>
<td>Environmental Geology</td>
<td></td>
</tr>
<tr>
<td>Choose 2 of the following, but cannot use both CGS PHY 120 and CGS PHY 209</td>
<td>8-10</td>
<td></td>
</tr>
<tr>
<td>CGS CHE 145</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CGS MAT 221</td>
<td>Calculus and Analytical Geometry I</td>
<td></td>
</tr>
<tr>
<td>CGS PHY 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>CGS PHY 209</td>
<td>Physics I (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 16-20

### Health Sciences Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS BIO 101</td>
<td>Concepts of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Choose 1 of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS BIO 202</td>
<td>Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>CGS BIO 203</td>
<td>Anatomy and Physiology 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose 1 of the following courses: 5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS CHE 125</td>
<td>Introductory Chemistry</td>
<td></td>
</tr>
<tr>
<td>CGS CHE 145</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>Choose 1 of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS MAT 117</td>
<td>Elementary Statistics</td>
<td>2-5</td>
</tr>
<tr>
<td>CGS MAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>CGS BIO 251</td>
<td>General Survey of Microbiology</td>
<td></td>
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</tbody>
</table>

Choose 1 of the following courses: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS PSY 201</td>
<td>Introductory Psychology</td>
<td></td>
</tr>
<tr>
<td>CGS PSY 202</td>
<td>Introductory Psychology</td>
<td></td>
</tr>
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</table>

Total Credits: 19-23

### History Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS HIS 101</td>
<td>History of the United States: From the Era of the Columbian Exchange to the Era of the Civil War</td>
<td>3</td>
</tr>
<tr>
<td>CGS HIS 102</td>
<td>History of the United States: From the Era of the Civil War to the Present ES</td>
<td>3</td>
</tr>
<tr>
<td>Any 200-level CGS HIS course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Choose 1 of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS HIS 105</td>
<td>History of Western Civilization from Ancient Times to the Era of the Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>CGS HIS 161</td>
<td>World History to 1500</td>
<td></td>
</tr>
<tr>
<td>Choose 1 of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS HIS 106</td>
<td>History of Western Civilization from the Era of the Renaissance to Contemporary Times</td>
<td>3</td>
</tr>
<tr>
<td>CGS HIS 162</td>
<td>World History Since 1500</td>
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</table>

Total Credits: 15

### Literature Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English (CGS ENG) course numbered 242-289</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>English (CGS ENG) course numbered 242-289</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
English (CGS ENG) course numbered 242-289 3
English (CGS ENG) course numbered 242-289 3
Total Credits 12

### Mathematics Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS MAT 221</td>
<td>Calculus and Analytical Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>CGS MAT 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>CGS MAT 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
</tbody>
</table>

**Elective Courses**

Choose from the following courses: 3-5
- CGS MAT 215 Elementary Statistical Analysis *
- CGS MAT 210 Topics in Finite Mathematics
- CGS MAT 228 Statistical Analysis
- CGS MAT 229 Linear Algebra
- CGS MAT 271 Ordinary Differential Equations
- CGS ECO/CGS BUS 243 Economic and Business Statistics

CGS PHY 201 University Physics I
or CGS PHY 202 University Physics II
CGS CPS 245 Computer Science I: Object-Oriented Programming
CGS CPS 255 Computer Science II: Objects and Data Abstraction
CGS EGR 263 Engineering Thermodynamics

Total Credits 16-18

* CGS MAT 215 is not recommended for students who intend to major in Mathematics.

### Music Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS MUS 171</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 1 of the following courses: 1-2
- CGS MUS 1 Beginning Piano
- CGS MUS 2 Beginning Piano
- CGS MUS 3 Elementary Piano
- CGS MUS 4 Elementary Piano

Choose 2 of the following courses: 6
- CGS MUS 172 Music Theory II
- CGS MUS 173 Music Literature and Appreciation
- CGS MUS 174 Music Literature and Appreciation
- CGS MUS 273 Jazz History and Appreciation
- CGS MUS 278 History of Rock and Roll
- CGS MUS 285 World Music

Total Credits 10-11

### Philosophy Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS PHI 101</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

### Physics Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS PHY 201</td>
<td>University Physics I</td>
<td>5</td>
</tr>
<tr>
<td>CGS PHY 202</td>
<td>University Physics II</td>
<td>5</td>
</tr>
<tr>
<td>CGS PHY 205</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>CGS MAT 223</td>
<td>Calculus &amp; Analytical Geometry III</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Total Credits 17-18

### Political Science Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS POL 104</td>
<td>American Government and Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 2 of the following courses: 6
- CGS POL 120 Politics of Crime and Punishment
- CGS POL 160 Comparative Politics
- CGS POL 175 International Politics
- CGS POL 231 Sex, Power and Public Policy

Choose 2 of the following courses: 6
- CGS POL 210 Civil Liberties
- CGS POL 215 Media and Politics
- CGS POL 280 Terrorism

Total Credits 15

### Pre-Nursing Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS BIO 251</td>
<td>General Survey of Microbiology</td>
<td>4-5</td>
</tr>
<tr>
<td>CGS BIO 202</td>
<td>Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>CGS BIO 203</td>
<td>Anatomy and Physiology 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose 1 of the following courses: 3-5
- CGS CHE 125 Introductory Chemistry
- CGS CHE 203 Survey of Biochemistry

Choose 1 of the following courses: 5
- CGS BIO 101 Concepts of Biology
- CGS BIO 150 Foundations of Biological Sciences I

Total Credits 20-23

### Psychology Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS PSY 210</td>
<td>Statistical Methods in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 1 of the following courses: 3-4
CGS PSY 201  Introductory Psychology
CGS PSY 202  Introductory Psychology
Choose 1 of the following courses: 3
  CGS PSY 250  Life Span Developmental Psychology
  CGS PSY 360  Psychology of Childhood and Adolescence
  CGS PSY 362  Psychology of Adulthood and Aging
Choose 1 of the following courses: 3-4
  CGS BIO 180  Introduction to Human Biology
  CGS BIO 201  Principles of Ecology
  CGS BIO 202  Anatomy and Physiology 1

Total Credits 12-14

**Sociology Emphasis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Required Courses
| CGS SOC 101 | Introduction to Sociology                        | 3       |
| CGS SOC 234 | Sociology of Race and Ethnicity ES               | 3       |
| Elective Courses - Student/Advisor Choice
| Choose 2 of the following courses: 6 |
| CGS SOC 130 | Contemporary Social Problems                     |         |
| CGS SOC 160 | Sociology of Human Sexuality                     |         |
| CGS SOC 205 | Global Social Problems                           |         |
| CGS SOC 220 | Sociology of Marriage and the Family             |         |
| CGS SOC 231 | Crime and Criminal Justice                       |         |
| CGS SOC 246 | Juvenile Delinquency                             |         |
| CGS SOC 250 | People, Organizations, and Society               |         |
| CGS SOC 285 | Sociology of Health and Illness                  |         |
| CGS SOC 294 | Practice in Applied Sociology                    |         |
| CGS SOC 299 | Independent Reading in Sociology                 |         |
| CGS SOC 355 | Sociology of the Environment                     |         |

Total Credits 12

**Sustainability Emphasis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Required Courses
| Choose 1 of the following courses: 3 |
| CGS BUS 101 | Introduction to Business                         |         |
| CGS BUS 243 | Economic and Business Statistics                 |         |
| CGS ECO 101 | Intro to Economics                               |         |
| CGS ECO 203 | Economics - Macro                                |         |
| CGS ECO 204 | Economics - Micro                                |         |
| CGS EGR 105 | Engineering Fundamentals                         |         |
| CGS ECO 243 | Economic and Business Statistics                 |         |
| CGS MAT 215 | Elementary Statistical Analysis                  |         |
| Choose 2 of the following courses: 7-10 |
| CGS BIO 101 | Concepts of Biology                              |         |
| CGS BIO 150 | Foundations of Biological Sciences I             |         |
| CGS CHE 125 | Introductory Chemistry                           |         |
| CGS CHE 145 | General Chemistry I                              |         |
| CGS GLG 101 | Physical Geology                                 |         |
| CGS GLG 135 | Introduction to Environmental Geology            |         |
| CGS GLG 169 | Environmental Geology                            |         |
| Choose 2 of the following courses: 6-8 |
| CGS BIO 191 | Environmental Science                           |         |
| CGS BIO 310 | General Ecology                                  |         |
| CGS GEO 350 | Environmental Conservation                       |         |
| CGS INT 290 | Special Topics in Interdisciplinary Studies      |         |
| CGS PHI 244 | Environmental Ethics                            |         |
| CGS SOC 355 | Sociology of the Environment                     |         |

Total Credits 16-21

**Theatre Arts Emphasis**
Completion of the following courses will fulfill the requirements for this emphasis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Required Courses
| CGS CTA 130 | Introduction to Theatre                          | 3       |
| CGS CTA 131 | Theatre Laboratory *                             | 1       |
| CGS CTA 131 | Theatre Laboratory *                             | 1       |
| Elective Courses
| Choose 9 credits from the following: 9 |
| CGS CTA 131 | Theatre Laboratory *                             |         |
| CGS CTA 232 | Introduction to Acting                          |         |
| CGS CTA 150 | Introduction to Film                            |         |
| CGS CTA 294 | Internship in Communication and Theatre Arts     |         |
| CGS CTA 298 | Topics in Speech and Dramatic Arts               |         |
| CGS ENG 280 | Introduction to Shakespeare                      |         |
| CGS ART 101 | Introduction to Drawing                         |         |
| CGS ART 112 | Three-Dimensional Design                        |         |

Total Credits 15

* A minimum of 3 credits of CGS CTA 131 is required. An additional 1 to 3 credits can be taken of CGS CTA 131 to count towards the emphasis.

Students should be aware that the Theatre Arts Emphasis will give them the basic knowledge and individualized experience to successfully prepare them for a major/minor in Theatre Arts, but they will be required to take additional lower division courses in Theatre when they transfer.

**Writing Emphasis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Required Courses
| CGS ENG 201 | Intermediate Composition                         | 3       |
| CGS ENG 203 | Creative Writing I                                | 3       |
| CGS ENG/CGS BUS 210 | Business Communication           | 3       |
| Choose 1 of the following: 1-3 |
| CGS ENG 202 | Writing about Literature                         |         |
| CGS ENG 204 | Creative Writing II                              |         |
| CGS ENG 291 | Writing Tutor Seminar                            |         |

Total Credits 10-12
Honors in the College of General Studies

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 20 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 30 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Campus Websites:
https://uwm.edu/waukesha/
https://uwm.edu/washington/

Arts and Sciences, AAS (Collaborative Online Program)
UW-Milwaukee has partnered with UW Extended Campus to offer a fully online Associate of Arts and Sciences degree. This program gives you the opportunity to earn the degree entirely online or take individual online courses to supplement on-campus coursework. The courses in this degree program provide you with a broad liberal arts foundation giving you the solid footing you need to achieve your educational goals.

Requirements
A minimum of 60 credits is required in order to receive the AAS. At least 24 of the 60 credits must be earned in the UW Collaborative Online AAS Degree program. A student must have a grade point average (GPA) of at least 2.0 earned cumulatively in the UW Collaborative Online AAS Degree program, and at least a 2.0 overall GPA in credits applied to the AAS. The AAS general education requirements must be fulfilled. The general education breadth categories are defined on the General Education (p. 29) page.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UWX BU101 &amp; UWX FN210</td>
<td>Introduction to Business and Personal Finance</td>
<td>6</td>
</tr>
<tr>
<td>UWX BU101 &amp; UWX EN210</td>
<td>Introduction to Business and Business Communication</td>
<td>6</td>
</tr>
<tr>
<td>UWX EN250 &amp; UWX EN278</td>
<td>Introduction to Literature and Multicultural Literature in the United States</td>
<td>6</td>
</tr>
<tr>
<td>UWX PH121 &amp; UWX PH237</td>
<td>Critical Thinking and Technology, Values, and Society</td>
<td>6</td>
</tr>
<tr>
<td>UWX PS101 &amp; UWX PS250</td>
<td>General Psychology and Lifespan Psychology</td>
<td>6</td>
</tr>
<tr>
<td>UWX SC101 &amp; UWX SC231</td>
<td>Introduction to Sociology and Crime and Criminal Justice</td>
<td>6</td>
</tr>
<tr>
<td>UWX MA116 &amp; UWX MA221</td>
<td>College Algebra and Calculus I</td>
<td>8</td>
</tr>
</tbody>
</table>

Quantitative Literacy (AAS-QL)
A student must complete a minimum of three credits of QL coursework, i.e. UWX MA108, UWX MA116, or UWX MA117 with a C or better. Quantitative literacy courses may fulfill breadth and depth degree requirements.

Laboratory Science (LS)
A student must complete at least one laboratory science course. LS courses normally fulfill a general education breadth requirement. In laboratory science courses, you engage in empirical study of the
natural world to enhance learning. To carry the LS degree designation, a science course must have at least one of the following active learning components as a regularly scheduled part of the course:

1. Learning activities in a laboratory or field setting;
2. Extensive use of scientific methods for student investigation, experimentation, and/or observation;
3. Active student participation in analysis and interpretation of data, using scientific tools, methods, conceptual frameworks, theories, and/or models.

Ethnic Studies/Diversity (ES)
A student must take one Ethnic Studies/Diversity course. Courses fulfilling this requirement have a substantial emphasis on cultural diversity issues and ethnic minorities within the United States.

Honors in the College of General Studies

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 20 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 30 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
The UWM College of Health Sciences offers the largest number of health-related degree programs in Wisconsin, training its graduates for high-demand careers. Many of the College’s seven undergraduate and eleven graduate degree programs are nationally-recognized and have achieved the highest accreditation awards possible. The College’s faculty conducts state-of-the-art research attracting a record number of federal research grants. During its 42-year history, the College’s research and health sciences education have contributed significantly to improving quality of life.

Our faculty comprises an esteemed group of scholars. The research activities of our faculty and staff encompass groundbreaking urban and population studies, pioneering biomedical research investigations, advances in movement science, ingenious rehabilitation research and development, innovative applied clinical technologies, and novel disease prevention approaches. These activities are supported by the resources of eight academic centers and twenty-seven state of the art laboratories within the College, and millions of dollars in funds from reputable institutions, such as the National Institutes of Health, the National Science Foundation, the Centers for Disease Control and Prevention, and the U.S. Department of Education.

**Departments and Programs**

- Biomedical Sciences (p. 580)
  - Biomedical Sciences, BS: Biomedical Science (p. 581)
  - Biomedical Sciences, BS: Cytotechnology (p. 583)
  - Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 586)
  - Biomedical Sciences, BS: Diagnostic Medical Sonography (p. 587)
  - Biomedical Sciences, BS: Health Science Completion (p. 590)
  - Biomedical Sciences, BS: Health Sciences (p. 591)
  - Biomedical Sciences, BS: Medical Laboratory Science (p. 592)
  - Biomedical Sciences, BS: Public Health Microbiology (p. 595)
  - Biomedical Sciences, BS: Radiologic Technology (p. 597)
  - Biomedical Sciences, MS (p. 599)
  - Blood Banking/Immunohematology, Undergraduate Certificate (p. 601)
  - Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 601)
  - Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 602)
  - Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 603)
  - Molecular Diagnostics, Undergraduate Certificate (p. 603)
  - Nutritional Sciences, BS (Department of Biomedical Sciences) (p. 604)
  - Nutritional Sciences, Minor (Department of Biomedical Sciences) (p. 605)
  - Communication Sciences and Disorders (p. 606)
  - Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders) (p. 607)
- Communication Sciences and Disorders, BS (p. 608)
- Communication Sciences and Disorders, MS (p. 611)
- Food Studies, Undergraduate Certificate (College of Health Sciences) (p. 613)
- Health Informatics and Administration (p. 614)
  - Health Care Administration, BS (p. 614)
  - Health Care Administration, Minor (p. 617)
  - Health Care Informatics, MS (p. 617)
  - Health Care Informatics, MS/Library and Information Science, MLIS (p. 618)
  - Health Care Informatics, Undergraduate Certificate (p. 619)
  - Healthcare Administration, MHA (p. 620)
  - Healthcare Compliance, Graduate Certificate (p. 621)
- Health Professional Education, Graduate Certificate (College of Health Sciences) (p. 622)
- Health Sciences (p. 623)
  - Health Sciences, PhD (p. 623)
- Interprofessional Public and Population Health, Graduate Certificate (College of Health Sciences) (p. 626)
- Kinesiology (p. 627)
  - Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology) (p. 629)
  - Athletic Training, MS (p. 630)
  - Complementary and Integrative Health Approaches, Undergraduate Certificate (p. 631)
  - Healthy Aging, Undergraduate Certificate (p. 632)
  - Kinesiology, BS (p. 632)
  - Kinesiology, Minor (p. 635)
  - Kinesiology, MS (p. 635)
  - Kinesiology, PhD (p. 637)
  - Nutritional Sciences, BS (Department of Kinesiology) (p. 639)
  - Nutritional Sciences, Minor (Department of Kinesiology) (p. 640)
- Occupational Science and Technology (p. 641)
  - Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 642)
  - Occupational Science and Technology, BS (p. 644)
  - Occupational Therapy, MS (p. 648)
  - Occupational Therapy, MS: Assistive Technology and Accessible Design (p. 649)
  - Occupational Therapy, MS: Ergonomics (p. 651)
  - Occupational Therapy, OTD (p. 652)
  - Therapeutic Recreation, Undergraduate Certificate (p. 654)
  - Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 654)
- Physical Therapy (p. 656)
  - Physical Therapy, DPT (p. 656)
- Pre-Professional Programs (p. 658)
  - Pre-Athletic Training (p. 658)
  - Pre-Audiology (p. 659)
  - Pre-Dietetics (p. 660)
  - Pre-Occupational Therapy (p. 661)
• Pre-Physical Therapy (p. 662)
• Pre-Speech-Language Pathology (p. 663)

Undergraduate Academic Advising

Academic advising and counseling for all pre-professional students is available in the Office of Student Affairs. Students who have been admitted to their major/professional program may be assigned a faculty advisor. Professional and faculty advisors are prepared to guide academic planning, provide career and job market information, and to assist students in making appropriate career choices within the health professions. Students are strongly encouraged to schedule one advising session per semester (preferably before the registration process).

Students who believe they have a disability that might affect their academic or job performance are encouraged to meet with an advisor early in their academic planning to discuss appropriate accommodations. Graduation clearance service is available for all students planning to register for the last two semesters. Call (414) 229-2758 for an appointment.

Transfer Students

The College of Health Sciences welcomes students from other academic areas on the UWM campus, and students transferring to UWM from other institutions. Students planning to transfer into any of the College's majors should meet with an advisor in the Office of Student Affairs to plan their curriculum as early as possible. Most students find that a number of their courses transfer in meeting specific program and General Education Requirements (GER) needed for graduation. Students may meet with their advisor in person or by phone; quick questions to advisors may be handled by email as well. Please call (414) 229-2758 for an appointment or information.

Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate Policies (p. 31). Please refer to the specific program for program policies and regulations.

Undergraduate Academic Regulations

For information regarding action on unsatisfactory grades or about honors for scholarship, see Academic Policies (p. 22).

Students in all College of Health Sciences majors whose cumulative or semester GPA in professional studies falls below 2.5 (except Nutrition, Occupational Studies, and all Kinesiology majors, who must have a semester GPA of 2.75; semesterly GPA of 3.0 is required for BS in Communication Sciences and Disorders) are required to consult with their program head and obtain the Dean's permission to continue in the program.

Continuous Enrollment

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Curriculum Requirements

Any deviations from the curriculum must be approved, in writing, by the student’s program director or chairperson, and the Associate Dean. It is required that a student consult his/her advisor before requesting any program changes or waivers.

Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, or internships, students will be required to have a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Health Insurance Documentation

Students may be required to carry health insurance during internship or fieldwork experiences. As a condition of placement in an internship program, students may also be required to have updated vaccinations (e.g., MMR, Hbv). In addition, a physical examination and TB test may be required.

Special Opportunities

Enrollment in UW System Independent Learning

Courses may be taken through the University of Wisconsin-Extension, with the permission of the Director of the Office of Student Affairs. Students may not exceed 18 credits during one semester, including correspondence courses and work in residence, without permission. Approval of a tuition waiver in an Independent Learning course may be contingent on enrollment by the add deadline in the semester in which you aim to enroll. Please connect with your advisor for further guidance.

Only elective course requirements may be met through Extension study.

Independent Study

Independent study is available in each department. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a faculty member. Activities may include reading, research, and special projects and must be approved, in advance, by the full-time faculty supervisor. Independent study is offered at the lower and upper levels. Students must have a cumulative GPA of 2.5 at UWM to pursue independent study. Upper-division independent study requires junior status. For more information, see the catalog course listings or contact the department chairperson.

College Level Examination Program (CLEP)

Credit for specific college courses may be earned through the College Level Examination Program (CLEP) of the College Entrance Examination Board. Students will be granted degree credit only for subject examinations, and if they score at the 50th percentile or higher on the National Sophomore norm. Credit for subject examinations may only be used to satisfy elective credits within the College of Health Sciences degree programs. A list of acceptable examinations may be found in the introductory section of this catalog under Academic Opportunities.

Online Programs

The College of Health Sciences is pleased to offer our Undergraduate students the opportunity to complete select degree programs and certificate programs in a fully online format.

Interested students should contact the College’s Office of Student Affairs for curriculum plans and an opportunity to meet with our academic advisors, (414) 229-2758. The Office is located in NWQB, Room 6425.
These programs include:

- BS, Biomedical Sciences, **Degree Completion Program in Health Sciences** (see the Biomedical Sciences (p. 580) section of this Catalog)
- BS, Biomedical Sciences, **Degree Completion Program in Diagnostic Imaging** (also available in Flexible Option) (see the Biomedical Sciences (p. 580) section of this Catalog)
- Certificate, **Study of Complementary and Alternative Medicine** (see the Kinesiology (p. 627) section of this Catalog)
- Certificate, **Health Care Informatics** (see the Health Informatics and Administration (p. 614) section of this Catalog)
- Certificate, **Therapeutic Recreation** (see the Occupational Science and Technology (p. 641) section of this Catalog)

### Administration

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timothy K. Behrens, PhD</td>
<td>Dean</td>
</tr>
<tr>
<td>Jeri-Annette Lyons, PhD</td>
<td>Associate Dean</td>
</tr>
<tr>
<td>Abigail Amissah-Arthur, PhD</td>
<td>Assistant Dean, Office of Research</td>
</tr>
<tr>
<td>Kate Brondino, MEd</td>
<td>Director, Office of Student Affairs</td>
</tr>
<tr>
<td>Susan Cashin, PhD</td>
<td>Director, Data Analytics</td>
</tr>
<tr>
<td>Cheri Dzielen Chapman</td>
<td>Communications Manager</td>
</tr>
<tr>
<td>Chi (Chris) Cho, MS</td>
<td>Biostatistician</td>
</tr>
<tr>
<td>Mike Hauer, PhD</td>
<td>Assistant Dean Emeritus</td>
</tr>
<tr>
<td>Michelle Janowiak</td>
<td>Senior Information Processing Consultant</td>
</tr>
<tr>
<td>Debra Maggio</td>
<td>Assistant Dean, Business Office</td>
</tr>
<tr>
<td>Karen Miyoshi, MA</td>
<td>Administrative Program Manager II</td>
</tr>
<tr>
<td>Marion McDowell</td>
<td>Administrative Program Manager III Emerita</td>
</tr>
<tr>
<td>Bill Mueller, MS</td>
<td>Academic Advisor</td>
</tr>
<tr>
<td>Agnes Northrup, MS</td>
<td>Academic Advisor</td>
</tr>
<tr>
<td>Angela Kowalski, MS</td>
<td>Academic Advisor/Recruiter</td>
</tr>
<tr>
<td>Torry Rufer, MS</td>
<td>Recruiter, Academic Advisor</td>
</tr>
<tr>
<td>Roger O. Smith, PhD, OTR, FAOTA</td>
<td>Director, R2D2</td>
</tr>
<tr>
<td>Susan Stalewski, MBA, MLS (ASCP)</td>
<td>Director, Academic Initiatives and Planning: Director, E-learning</td>
</tr>
<tr>
<td>Scott Strath, PhD</td>
<td>Director, Center for Aging and Translational Research</td>
</tr>
<tr>
<td>Ron Wiza, BA</td>
<td>Director, Continuing Education and Outreach</td>
</tr>
</tbody>
</table>

### Programs

Medical tests are critical to the accurate detection, diagnosis and treatment of diseases, and so are the scientists who analyze and interpret those tests in the lab. A degree in biomedical sciences prepares these analysts, and is ideal for students who enjoy science and its practical applications in healthcare or research settings.

- Biomedical Sciences, BS: Biomedical Science (p. 581)
- Biomedical Sciences, BS: Cytotechnology (p. 583)
- Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 586)
- Biomedical Sciences, BS: Diagnostic Medical Sonography (p. 587)
- Biomedical Sciences, BS: Health Science Completion (p. 590)
- Biomedical Sciences, BS: Health Sciences (p. 591)
- Biomedical Sciences, BS: Medical Laboratory Science (p. 592)
- Biomedical Sciences, BS: Public Health Microbiology (p. 595)
- Biomedical Sciences, BS: Radiologic Technology (p. 597)
- Biomedical Sciences, MS (p. 599)
- Blood Banking/Immunohematology, Undergraduate Certificate (p. 601)
- Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 601)
- Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 602)
- Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 603)
- Molecular Diagnostics, Undergraduate Certificate (p. 603)
- Nutritional Sciences, BS (Department of Biomedical Sciences) (p. 604)
- Nutritional Sciences, Minor (Department of Biomedical Sciences) (p. 605)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Shahla Anders</td>
<td>Clinical Associate Professor</td>
<td>MED, MLS(ASCP)CM</td>
<td>Carroll University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cynthia Brown</td>
<td>Clinical Associate Professor</td>
<td>MED, MLS(ASCP)CM</td>
<td>Central Michigan University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daniel Cordas</td>
<td>Clinical Instructor</td>
<td>BS</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lora deOliveria</td>
<td>Outreach Program Manager II</td>
<td>MBA, MPH</td>
<td>Marquette University, University of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bradley DePons</td>
<td>Clinical Instructor</td>
<td>BS, MLS(ASCP)CM</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Jennifer Doll  
Associate Professor  
PhD  
Washington University

Janis Eells  
Professor  
PhD  
University of Iowa

Christine Grams  
Clinical Assistant Professor  
BS  
Mount Mary University

Margaret Hirschfeld  
Clinical Assistant Professor  
BS  
University of Saint Francis, IL

Fang Yao Stephen Hou  
Clinical Assistant Professor  
PhD, MB(ASCP)QCYM, MLS(ASCPi)  
University of Wisconsin-Madison

Randall Lambrecht  
Professor  
PhD, MT(ASCP)  
University of Wisconsin-Madison

Elizabeth Liedhegner  
Faculty Associate  
PhD  
Case Western Reserve University

Jeri-Annette Lyons  
Professor  
PhD, MT(ASCP)  
Medical College of Wisconsin

Dean Nardelli  
Associate Professor  
PhD  
University of Wisconsin-Madison

Troy Skwor  
Assistant Professor  
PhD  
Texas A&M University

Susan Stalewski  
Clinical Associate Professor  
MBA, MLS(ASCP)CM  
Keller Graduate School of Management

Jayne Wisniewski  
Clinical Assistant Professor  
MED  
Carroll University, WI

Nathan Wojciechowski  
Clinical Assistant Professor  
BS  
University of Wisconsin-Madison

### Biomedical Sciences, BS: Biomedical Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

### Biomedical Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. This submajor provides excellent preparation for medical, physician assistant, dental, or veterinary school, biomedical research, forensic science, or employment with pharmaceutical or biotechnology companies.

### Requirements

This program is intended for students who wish to pursue an education in a laboratory-based program with the intent of working in the healthcare industry or for pursuing graduate health profession study. Sufficient elective credits are included to facilitate custom degree pathways. The minimum number of credits required to complete this degree is 120. Students who need background preparation courses in math, English, foreign language, or chemistry may need additional credits. This program does not lead to certification as a Medical Laboratory Scientist.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM’s General Education Requirements (GER) (p. 29);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of all required courses and electives (87 credits) through the second semester of junior year (per plan of study);
5. A grade of C or better in all junior-level courses.

### Biomedical Science Submajor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHS 100</td>
<td>New Student Seminar in Health Professions</td>
<td>1</td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I 1</td>
<td>4</td>
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<tr>
<td>CHEM 102</td>
<td>General Chemistry (Semester 2) 1</td>
<td>5</td>
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<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II 1</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis 1</td>
<td>5</td>
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<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 103</td>
<td>Life Balance: An Understanding of Leisure (or equivalent) 2</td>
<td>3</td>
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<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I 1</td>
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<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals 1</td>
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<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems 1</td>
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<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry 1</td>
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<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory 1</td>
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### Biomedical Sciences, BS: Biomedical Science

#### Biomedical Science Submajor Requirements

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<tr>
<th>Code</th>
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<td>BMS 539</td>
<td>Public Health Microbiology</td>
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<td>Public Health Microbiology Lab</td>
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<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry *</td>
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<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
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<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 549</td>
<td>Professional Development in Clinical Laboratory Sciences *</td>
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<td>BMS 534</td>
<td>Medical Microbiology</td>
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<td>BMS 535</td>
<td>Medical Microbiology Laboratory</td>
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<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
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<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
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<tr>
<td>INFOST 230</td>
<td>Organization of Knowledge</td>
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<td>HCA 537</td>
<td>Health Information Technology and Management</td>
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<td>HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
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<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services</td>
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<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
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<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
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<td>HS 311</td>
<td>Law and Ethics for Healthcare Professionals</td>
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<tr>
<td>HCA 333</td>
<td>Health Organizations Professional Practice Standards</td>
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<td>HCA 537</td>
<td>Health Information Technology and Management</td>
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<tr>
<td>HCA 422</td>
<td>Human Resource Management in Healthcare Organizations</td>
<td>3</td>
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</tbody>
</table>

*Included in the required curriculum.

BMS 101 and BMS 205 are recommended, but not required.

### Suggested Elective Certificates

(Please consult advising regarding certificate requirements):

- Molecular Diagnostics Certificate (p. 603)
Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Cytotechnology
Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

Cytotechnology
Cytotechnologists examine human cells under the microscope, looking for early signs of cancer or other diseases. When abnormal cells are detected, the cytotechnologist works with a pathologist to arrive at a final diagnosis. The Cytotechnology program is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP), www.caahep.org (http://www.naacls.org/), located at 1361 Park St., Clearwater, FL 33756. Students successfully completing this program are eligible to sit for a national certification exam. Students enrolled in the Cytotechnology

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1 Required science courses - 2.5 average GPA.
Program will complete their senior year of professional clinical training at the UW / State Lab of Hygiene in Madison.

Requirements

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 29);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Cytotechnology, or Medical Laboratory Science;
   b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

Degree Requirements

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
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<td>Human Pathophysiology: Fundamentals</td>
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<tr>
<td>&amp; BMS 302</td>
<td>and Human Pathophysiology: Organ Systems I</td>
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</tr>
<tr>
<td>&amp; BMS 303</td>
<td>and Human Pathophysiology: Organ Systems II</td>
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<td>&amp; BMS 304</td>
<td>and Human Pathophysiology: Organ Systems III</td>
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<tr>
<td>&amp; BMS 305</td>
<td>and Human Pathophysiology: Organ Systems IV</td>
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<td>BMS 427</td>
<td>Clinical Immunology</td>
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<td>BMS 428</td>
<td>Clinical Immunology Laboratory</td>
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<td>BMS 534</td>
<td>Medical Microbiology</td>
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<td>BMS 535</td>
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<td>Applied Clinical Microbiology</td>
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<td>Medical Parasitology and Mycology</td>
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<td>Molecular and Genetic Diagnostics</td>
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<td>General Chemistry and Qualitative Analysis</td>
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<td>Introductory Survey of Organic Chemistry</td>
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<td>Professional Scientists</td>
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<td>KIN 270</td>
<td>Statistics in the Health Professions:</td>
<td>3</td>
</tr>
<tr>
<td>Theory and Practice</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Course counts towards a student's science GPA.

Pre-Clinical Requirements

The junior year for students pursuing the Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 101</td>
<td>Introduction to Clinical Laboratory Sciences</td>
<td>2</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BMS 420</td>
<td>Clinical Hematology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 421</td>
<td>Introduction To Hematology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 431</td>
<td>Clinical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BMS 432</td>
<td>Clinical Chemistry Laboratory Theory &amp;</td>
<td>1</td>
</tr>
<tr>
<td>Operations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMS 521</td>
<td>Applied Clinical Hematology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 522</td>
<td>Hemostasis</td>
<td>1</td>
</tr>
<tr>
<td>BMS 534</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 535</td>
<td>Medical Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BMS 536</td>
<td>Applied Clinical Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 537</td>
<td>Medical Parasitology and Mycology</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Course counts towards a student's science GPA.
Cytotechnology Submajor Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BMS 501</td>
<td>Introduction to Cytotechnology</td>
<td>1</td>
</tr>
<tr>
<td>BMS 575</td>
<td>Cytology of the Female Genital Tract - I</td>
<td>4</td>
</tr>
<tr>
<td>BMS 576</td>
<td>Cytology of the Female Genital Tract - II</td>
<td>4</td>
</tr>
<tr>
<td>BMS 577</td>
<td>Cytology of the Respiratory Tract</td>
<td>3</td>
</tr>
<tr>
<td>BMS 578</td>
<td>Cytology of the Gastrointestinal and the Genito-Urinary Tract</td>
<td>2</td>
</tr>
<tr>
<td>BMS 579</td>
<td>Cytology of Effusions and the Central Nervous System</td>
<td>3</td>
</tr>
<tr>
<td>BMS 580</td>
<td>Aspiration Cytology</td>
<td>4</td>
</tr>
<tr>
<td>BMS 581</td>
<td>Special Procedures in Cytology</td>
<td>1</td>
</tr>
<tr>
<td>BMS 582</td>
<td>Cytology of the Breast</td>
<td>1</td>
</tr>
<tr>
<td>BMS 583</td>
<td>Cytology Preparation Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BMS 586</td>
<td>Cytology Lab Operations and Quality Control</td>
<td>1</td>
</tr>
<tr>
<td>BMS 587</td>
<td>Research Methods in Cytology</td>
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</tr>
<tr>
<td>BMS 588</td>
<td>Diagnostic Microscopy in Cytology</td>
<td>5</td>
</tr>
</tbody>
</table>

Students apply to be admitted to the State Hygiene Lab in Madison, WI for their clinical rotations.

Biomedical Sciences Requirements

### Year 1

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>BMS 101</td>
<td>Introduction to Clinical Laboratory Sciences ¹</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine ¹</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>GER Elective: Arts</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
</tr>
<tr>
<td>GER Elective: Humanities</td>
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### Year 2

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
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<tr>
<td>BMS 301</td>
<td>Human Pathophysiology Fundamentals</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology Organ Systems I</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology Organ Systems II</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing (OWCB) ²</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
</tr>
</tbody>
</table>

### Fall Of 2020

1. BMS 101 and BMS 205 are highly recommended but not required.
2. ENGLISH 207 is required for students without any credit prior to Fall 2013.

**Credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
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<tr>
<td>BMS 427</td>
<td>Clinical Immunology</td>
<td>3</td>
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<tr>
<td>BMS 428</td>
<td>Clinical Immunology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GER Elective: Humanities</td>
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<td>3</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMS 420</td>
<td>Clinical Hematology</td>
</tr>
<tr>
<td>BMS 421</td>
<td>Introduction To Hematology Laboratory</td>
</tr>
<tr>
<td>BMS 431</td>
<td>Clinical Chemistry</td>
</tr>
<tr>
<td>BMS 432</td>
<td>Clinical Chemistry Laboratory Theory &amp; Operations</td>
</tr>
<tr>
<td>BMS 534</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>BMS 535</td>
<td>Medical Microbiology Laboratory</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
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<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Year 3</th>
<th>Semester 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMS 521</td>
<td>Applied Clinical Hematology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 522</td>
<td>Hemostasis</td>
<td>1</td>
</tr>
<tr>
<td>BMS 536</td>
<td>Applied Clinical Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 537</td>
<td>Medical Parasitology and Mycology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 541</td>
<td>Urinalysis</td>
<td>1</td>
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<tr>
<td>BMS 542</td>
<td>Applied Clinical Chemistry</td>
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<td><strong>Total Credits</strong></td>
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</table>

### Year 4

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BMS 501</td>
<td>Introduction to Cytotechnology</td>
</tr>
<tr>
<td>BMS 575</td>
<td>Cytology of the Female Genital Tract - I</td>
</tr>
<tr>
<td>BMS 576</td>
<td>Cytology of the Female Genital Tract - II</td>
</tr>
<tr>
<td>BMS 577</td>
<td>Cytology of the Respiratory Tract</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>12</td>
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</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 578</td>
<td>Cytology of the Gastrointestinal and the Genito-Urinary Tract</td>
</tr>
<tr>
<td>BMS 579</td>
<td>Cytology of Effusions and the Central Nervous System</td>
</tr>
<tr>
<td>BMS 580</td>
<td>Aspiration Cytology</td>
</tr>
<tr>
<td>BMS 581</td>
<td>Special Procedures in Cytology</td>
</tr>
<tr>
<td>BMS 582</td>
<td>Cytology of the Breast</td>
</tr>
<tr>
<td>BMS 586</td>
<td>Cytology Lab Operations and Quality Control</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

###Credits

1. BMS 101 and BMS 205 are highly recommended but not required.
2. ENGLISH 207 is required for students without any credit prior to Fall 2013.

KIN 270 Statistics in the Health Professions: Theory and Practice (QLB) | 3 |
GER Elective: Social Science | 3 |
GER Elective: Social Science | 3 |

**Total Credits** 102
Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Diagnostic Imaging Completion
Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Radiologic Technology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

Diagnostic Imaging Degree Completion
Offered Online and in the UW Flexible Option format.

To be eligible for the Diagnostic Imaging degree completion program, you must hold active registry from one of the following: the American Registry of Radiologic Technologists (ARRT), the American Registry of Diagnostic Medical Sonography (ARDMS), Cardiovascular Credentialing International (CCI), or equivalent professional imaging registry. The program, which provides the opportunity to complete a baccalaureate degree in diagnostic imaging (BSDI), consists of 120 credits with students receiving 60 credits for holding an active registry. Students entering the program with an Associate’s Degree will typically complete 60 credits to be eligible for graduation; students entering the program with hospital-based diploma credits only may have additional credits to satisfy towards graduation. Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

The degree-completion program is designed for non-traditional adult students who have already worked several years as a healthcare professional and can be completed 100% online. This program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, diagnostic imaging educator, and others that require a bachelor’s degree for entry, such as occupational therapist, physical therapist, and physician’s assistant. With a bachelor of science in diagnostic imaging degree, you will also be qualified to expand your career into other areas of the medical imaging industry, from product development to sales and marketing.

Students may also choose to complete the program via the UW Flexible Option. The Flex Option is especially designed for self-motivated nontraditional students who want their previous schooling, work skills, and prior knowledge to apply toward degrees or certificates. The competency-based and self-paced format of the UW Flexible Option fits the schedules of students who must balance work and family responsibilities with educational goals. Because most Flexible Option competencies and assessments are delivered online, students have the opportunity to learn when and where they choose.

Requirements
Offered Online and in the UW FLEX Option format.

This interdisciplinary degree completion program in Diagnostic Imaging is open to professionals holding an active registry from ARRT, ARDMS, CCI, or equivalent professional imaging registry. Applicants with the required credentials are awarded 30 block credits plus natural transfer credits equaling a minimum of 60 credits and a maximum of 72 credits. A maximum of 72-semester credits can be transferred from a single or combination of associate degree/2-year institutions. There is no maximum number of semester credits that can be transferred from a 4-year university). A minimum of 120 credits is required to complete the bachelor’s degree including all required courses. The final 30 credits must be completed at UWM. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more credits. Coursework may be completed online or in a flexible, competency-based format.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM’s General Education Requirements (GER) (p. 29).
2. A cumulative UWM GPA of 2.5.
3. Completion of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
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</tr>
</tbody>
</table>

Students receiving 60 credits for holding an active registry. Students entering the program with an Associate’s Degree will typically complete 60 credits to be eligible for graduation; students entering the program with hospital-based diploma credits only may have additional credits to satisfy towards graduation. Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

The degree-completion program is designed for non-traditional adult students who have already worked several years as a healthcare professional and can be completed 100% online. This program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, diagnostic imaging educator, and others that require a bachelor’s degree for entry, such as occupational therapist, physical therapist, and physician’s assistant. With a bachelor of science in diagnostic imaging degree, you will also be qualified to expand your career into other areas of the medical imaging industry, from product development to sales and marketing.

Students may also choose to complete the program via the UW Flexible Option. The Flex Option is especially designed for self-motivated nontraditional students who want their previous schooling, work skills, and prior knowledge to apply toward degrees or certificates. The competency-based and self-paced format of the UW Flexible Option fits the schedules of students who must balance work and family responsibilities with educational goals. Because most Flexible Option competencies and assessments are delivered online, students have the opportunity to learn when and where they choose.

Requirements
Offered Online and in the UW FLEX Option format.

This interdisciplinary degree completion program in Diagnostic Imaging is open to professionals holding an active registry from ARRT, ARDMS, CCI, or equivalent professional imaging registry. Applicants with the required credentials are awarded 30 block credits plus natural transfer credits equaling a minimum of 60 credits and a maximum of 72 credits. A maximum of 72-semester credits can be transferred from a single or combination of associate degree/2-year institutions. There is no maximum number of semester credits that can be transferred from a 4-year university). A minimum of 120 credits is required to complete the bachelor’s degree including all required courses. The final 30 credits must be completed at UWM. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more credits. Coursework may be completed online or in a flexible, competency-based format.

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3. Completion of the following courses:

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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
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<tr>
<td>or ENGLISH 207</td>
<td>Health Science Writing</td>
<td></td>
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<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Health Sciences/Imaging coursework ¹</td>
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<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
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<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
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<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<tr>
<td>HS 311</td>
<td>Law and Ethics for Healthcare Professionals</td>
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<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
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<td>DMI 458</td>
<td>Seminar in Advanced Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DMI 463</td>
<td>Seminar in Education and Management in Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DMI 496</td>
<td>Professional Growth and Career Advancement in Diagnostic Imaging Professions</td>
<td>3</td>
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<td>UWS NSG 453</td>
<td>Information Management and Healthcare Technology</td>
<td>3</td>
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<tr>
<td>Electives</td>
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</table>

¹ Completed with a grade of C or better.

Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option should visit [http://flex.wisconsin.edu/degrees-programs/diagnostic-imaging/](http://flex.wisconsin.edu/degrees-programs/diagnostic-imaging/) for additional information.

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Biomedical Sciences, BS: Diagnostic Medical Sonography**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

**Diagnostic Medical Sonography**

By using high-frequency sound waves or ultrasound, sonographers produce images of soft tissue and blood flow to assist with the diagnostic process or administration of therapeutic application. Sonography is used to examine the abdomen, breast tissue, female reproductive system, urinary system, heart, and blood vessels. In addition, sound waves are used to guide fine-needle biopsy. Diagnostic Medical Sonography students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national board exams offered through the American Registry for Diagnostic Medical Sonography ([www.ardms.org](http://www.ardms.org/)). The Diagnostic Medical Sonography professional education program is accredited by the Commission on Accreditation of Allied Health Education Programs ([CAAHEP](http://www.caahep.org/)) upon recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography.

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Commission on Accreditation of Allied Health Education Programs (CAAHEP)
25400 U.S. Highway 19 North, Suite 158
Clearwater, FL 33763
Requirements

Students pursuing Diagnostic Medical Sonography complete the freshman and sophomore years on campus. Upon advancement to the major, students complete the professional training curriculum (junior and senior years) at either the on-campus UW sonography program or through the external sonography program offered at UW Hospital & Clinics (UWHC) in Madison. Two educational options are available: General/Vascular Sonography or Echocardiography/Vascular Sonography. The Echocardiography/Vascular Sonography option is only available through external program at UWHC. The internal clinical affiliates through UWM include clinical sites in the Milwaukee area for general/vascular. Students are responsible for any relocation and all living expenses during clinical training. Entry into the professional curriculum is highly competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 29);
2. Completion of all required courses and electives (56 credits) in the freshman and sophomore semesters with a cumulative GPA of 3.0; a maximum of 4 courses may be repeated once.
3. Successful completion of the professional education application process to include an on-site interview with the external sonography programs and/or the UWHC program;
4. Successful completion of a background check, health physical, drug screen, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td>4</td>
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<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
<td>1</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
<td>1</td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
<td>4</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An</td>
<td>3</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
<td>1</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
<td>1</td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (HU)</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 250</td>
<td>Interprofessional Communication in the</td>
<td>3</td>
</tr>
<tr>
<td>DMI 101</td>
<td>Introduction to Medical Imaging</td>
<td>1</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 244</td>
<td>Ethical Issues in Health Care: (HU)</td>
<td>3</td>
</tr>
<tr>
<td>DMI 311</td>
<td>Abdominal Sonography-I</td>
<td>3</td>
</tr>
<tr>
<td>DMI 312</td>
<td>Abdominal Sonography-II</td>
<td>3</td>
</tr>
<tr>
<td>DMI 313</td>
<td>Sonography Clinical Education I</td>
<td>3</td>
</tr>
</tbody>
</table>

6. Complete job-shadowing in an imaging department with a Diagnostic Medical Sonography professional prior to applying for placement into the professional education component;
7. Complete the American Heart Association Basic Life Support CPR and AED Training for Healthcare Professionals; and
8. Completion of a CNA (Certified Nursing Assistant) course is required for the clinical application and placement. View a list of WI nurse aide training programs at www.dhs.wisconsin.gov/caregiver/ (http://www.dhs.wisconsin.gov/caregiver/).
9. Interview with the program.

Note: 100 hours of patient care beyond the CNA course are required for placement at UW Hospital and Clinics School of Diagnostic Medical Sonography. Documentation verifying the 100 hours and evaluation of job performance will be required. Completing the CNA course and hours by the professional training application deadline of November 1 is recommended.

Additional information is available from the Office of Student Affairs, (414) 229-2758.

Admission into the professional training curriculum is highly competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional training curriculum, students must adhere to all program policies and procedures.
Pre-Professional Training Requirements

**Year 1**

**Fall**

- BIO SCI 202 Anatomy and Physiology I *  
- BMS 205 Introduction to Diagnostic Medicine  
- COMMUN 103 Public Speaking (HU)  
- CHEM 100 Chemical Science *  
- DMI 101 Introduction to Medical Imaging  

Credits: **15**

**Spring**

- BIO SCI 203 Anatomy and Physiology II *  
- HS 222 Language of Medicine  
- KIN 270 Statistics in the Health Professions: Theory and Practice (QLB)  
- PHILOS 244 Ethical Issues in Health Care: (HU)  

Credits: **13**

**Year 2**

**Fall**

- BIO SCI 150 Foundations of Biological Sciences I  
- BMS 301 Human Pathophysiology: Fundamentals *  
- BMS 302 Human Pathophysiology: Organ Systems I *  
- BMS 303 Human Pathophysiology: Organ Systems II *  
- COMSDIS 250 Interprofessional Communication in the Health Sciences (SS)  

Credits: **13**

**Total Credits: 56**

---

1. Credit may be utilized in required curriculum areas.
2. Example of the general/vascular curriculum provided. Curriculum course list and sequence given to student upon advancement to major.

---

**Professional Training Curriculum Course List: General/Vascular**

*(Curriculum course list and sequence provided to student upon advancement to major.)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMI 311</td>
<td>Abdominal Sonography-I</td>
<td>3</td>
</tr>
<tr>
<td>DMI 312</td>
<td>Abdominal Sonography-II</td>
<td>3</td>
</tr>
<tr>
<td>DMI 313</td>
<td>Sonography Clinical Education I</td>
<td>3</td>
</tr>
<tr>
<td>DMI 319</td>
<td>Abdominal Sonography III</td>
<td>3</td>
</tr>
<tr>
<td>DMI 320</td>
<td>Obstetrics/Gynecology Sonography I</td>
<td>3</td>
</tr>
<tr>
<td>DMI 321</td>
<td>Obstetrics/Gynecology Sonography II</td>
<td>3</td>
</tr>
<tr>
<td>DMI 322</td>
<td>Obstetrics/Gynecology Sonography III</td>
<td>3</td>
</tr>
<tr>
<td>DMI 323</td>
<td>Sonographic Principles and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>DMI 324</td>
<td>Sonography Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td>DMI 325</td>
<td>Specialized Sonography</td>
<td>2</td>
</tr>
<tr>
<td>DMI 326</td>
<td>Sonography Clinical Education III</td>
<td>3</td>
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<tr>
<td>DMI 327</td>
<td>Foundations of Sonography I</td>
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<tr>
<td>DMI 328</td>
<td>Foundations of Sonography II</td>
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<tr>
<td>DMI 402</td>
<td>Introduction to MSK Sonography</td>
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<tr>
<td>DMI 450</td>
<td>Vascular Sonography I</td>
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<td>DMI 451</td>
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<tr>
<td>DMI 452</td>
<td>Sonography Clinical Education IV</td>
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<tr>
<td>DMI 453</td>
<td>Seminar in OB/GYN Sonography</td>
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<tr>
<td>DMI 454</td>
<td>Introduction to Fetal Echocardiography</td>
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<td>DMI 455</td>
<td>Vascular Sonography III</td>
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<td>DMI 456</td>
<td>Sonography Clinical Education V</td>
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<td>DMI 458</td>
<td>Seminar in Advanced Medical Imaging</td>
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<tr>
<td>DMI 460</td>
<td>Professional Development in Sonography - Seminar</td>
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<tr>
<td>DMI 461</td>
<td>Sonography Clinical Education VI</td>
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<tr>
<td>DMI 462</td>
<td>Seminar in Education and Management in Medical Imaging</td>
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</tbody>
</table>

* Requires grade of C or better.
**Professional Training Curriculum Course List: Echocardiography/Vascular**

*(Curriculum course list and sequence provided to student upon advancement to major.)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>DMI 310</td>
<td>Introduction to Sonography</td>
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</tr>
<tr>
<td>DMI 323</td>
<td>Sonographic Principles and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>DMI 336</td>
<td>Cardiovascular Principles I</td>
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</tr>
<tr>
<td>DMI 337</td>
<td>Clinical Education I - Echocardiography</td>
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</tr>
<tr>
<td>DMI 340</td>
<td>Embryology of the Cardiovascular System</td>
<td>2</td>
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<tr>
<td>DMI 341</td>
<td>Adult Echocardiography - Valvular Pathology</td>
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<tr>
<td>DMI 342</td>
<td>Clinical Education II - Echocardiography</td>
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<tr>
<td>DMI 345</td>
<td>Pediatric Echocardiography I</td>
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<td>DMI 346</td>
<td>Adult Echocardiography - Cardiomyopathies</td>
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<td>DMI 347</td>
<td>Clinical Education III - Echocardiography</td>
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<td>DMI 348</td>
<td>Adult Echocardiography - Advanced Pathology</td>
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<tr>
<td>DMI 349</td>
<td>Pediatric Echocardiography II</td>
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<td>DMI 350</td>
<td>Stress Echocardiography</td>
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<tr>
<td>DMI 351</td>
<td>Clinical Education IV - Echocardiography</td>
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<td>DMI 352</td>
<td>Clinical Education V - Echocardiography</td>
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<td>DMI 353</td>
<td>Clinical Education VI - Echocardiography</td>
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<td>DMI 354</td>
<td>Special Procedures in Echocardiography</td>
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<tr>
<td>DMI 355</td>
<td>Vascular Sonography I</td>
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</tr>
<tr>
<td>DMI 356</td>
<td>Vascular Sonography II</td>
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</tr>
<tr>
<td>DMI 357</td>
<td>Introduction to Fetal Echocardiography</td>
<td>3</td>
</tr>
<tr>
<td>DMI 358</td>
<td>Vascular Sonography III</td>
<td>3</td>
</tr>
<tr>
<td>DMI 359</td>
<td>Seminar in Advanced Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DMI 360</td>
<td>Professional Development in Sonography - Seminar</td>
<td>3</td>
</tr>
<tr>
<td>DMI 361</td>
<td>Seminar in Education and Management in Medical Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Biomedical Sciences, BS: Health Science Completion**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

**Health Sciences Degree Completion**

Offered Online and in the UW Flexible Option format.

This interdisciplinary degree completion in Health Sciences is open to those holding an Associate's degree in a health-related profession and an active certification or license in a related health profession. Applicants with the required credentials are awarded 60 credits and will then complete a minimum of 60 additional credits toward the baccalaureate degree. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more than 60 credits. Coursework may be completed online. The availability of this degree completion program in a Flex Option competency-based format is pending approval as of the publication date of this Catalog.

Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

This degree completion program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, health...
educator, and others that require a bachelor’s degree for entry, such as occupational therapist, physical therapist, and physician’s assistant.

Requirements

Offered Online, Blended and in the UW Flexible Option format.

This interdisciplinary degree completion in Health Sciences is open to those holding an associate degree or with 60 transferrable credits. Applicants holding an associate degree are awarded 30 block credits plus natural transfer credits equaling a minimum of 60 credits and a maximum of 72 credits. Applicants with 60 transferrable credits are awarded actual advanced standing credit. (A maximum of 72 semester credits can be transferred from a single or combination of associate degree/2-year institutions. There is no maximum number of semester credits that can be transferred from a 4-year university). A minimum of 120 credits is required to complete the bachelor’s degree including all required courses. The final 30 credits must be completed at UWM. Students with GER requirements or those planning applications to specific professional graduate programs may need to complete more credits. Coursework may be completed online or in a flexible, competency-based format.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM’s General Education Requirements (GER) (p. 29), and
2. Completion of math and English competency requirements, and
3. A cumulative UWM GPA of 2.5, and
4. A minimum of 30 credits from UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Major Requirements</td>
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#### Required

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<tbody>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
</tr>
<tr>
<td>ENGLISH 207 or ENGLISH 206</td>
<td>Health Science Writing (OWC-B GER) or Technical Writing</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
</tr>
<tr>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
</tr>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice (or equivalent)</td>
</tr>
<tr>
<td>THERREC 202</td>
<td>Disability: Society and the Person</td>
</tr>
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</table>

#### Advanced Health Sciences Coursework 18

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HS 311</td>
<td>Law and Ethics for Healthcare Professionals</td>
</tr>
<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<tr>
<td>BMS 433</td>
<td>Teamwork in the Health Professions</td>
</tr>
<tr>
<td>BMS 434</td>
<td>Professional Development in the Health Sciences</td>
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</table>

<table>
<thead>
<tr>
<th>Electives</th>
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</thead>
<tbody>
<tr>
<td>Total Credits</td>
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</tr>
</tbody>
</table>

Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option should visit [http://flex.wisconsin.edu/degrees-programs/health-sciences/](http://flex.wisconsin.edu/degrees-programs/health-sciences/) for additional information.

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Biomedical Sciences, BS: Health Sciences**

The Biomedical Sciences: Health Sciences submajor offers students an opportunity to build on completed coursework and to develop or strengthen skills in critical thinking, problem-solving, information literacy, informatics, management, and education in the health professions. Undergraduate certificates related to disability, informatics, management, and healthcare administration as well as options in health and wellness are available.

**Requirements**

The interdisciplinary Biomedical Sciences: Health Sciences submajor is open to those who have successfully completed 30 or more credits as intended majors at a four year or two year institution. It is not open for new freshman.

The minimum degree requirement for completion is 120 credits including:
Biomedical Sciences, BS: Medical Laboratory Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

Medical Laboratory Science

Medical laboratory scientists are trained in the theoretical and practical aspects of laboratory medicine, which are critical to the detection, diagnosis, and treatment of diseases. Medical Laboratory Science offers a wide variety of career options, including hospitals, clinics, independent laboratories, public health facilities, business, industry, research, sales, and marketing. Students also may use this major to prepare for medical or graduate school. Students successfully completing this program are eligible to sit for a national certification exam offered by the American Society for Clinical Pathology (ASCP-BOC). The UWM Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), www.naacs.org (http://www.naacs.org), located at 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119.

Requirements

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 29);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the second semester of junior year for students pursing Cytotechnology, or Medical Laboratory Science;
b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and

5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I ¹⁺</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I ¹⁺</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II ¹⁺</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics ¹⁺</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology ¹⁺</td>
<td>4</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology Fundamentals and Human Pathophysiology: Organ Systems I</td>
<td>5</td>
</tr>
<tr>
<td>&amp; BMS 302</td>
<td>&amp; BMS 303</td>
<td>&amp; BMS 304</td>
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<tr>
<td>and Human Pathophysiology: Organ Systems II and Human Pathophysiology: Organ Systems III and Human Pathophysiology: Organ Systems IV ¹⁺</td>
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<td>BMS 427</td>
<td>Clinical Immunology ¹⁺</td>
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<td>BMS 534</td>
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<tr>
<td>BMS 535</td>
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<tr>
<td>BMS 536</td>
<td>Applied Clinical Microbiology</td>
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<td>BMS 537</td>
<td>Medical Parasitology and Mycology</td>
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<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
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<tr>
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<tr>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis ¹⁺</td>
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<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry ¹⁺</td>
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<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory ¹⁺</td>
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</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry ¹⁺</td>
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<td>Computational Tools for Healthcare Professionals</td>
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<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Course counts towards a student’s science GPA.

### Pre-Clinical Requirements

The junior year for students pursuing the Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

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<thead>
<tr>
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<td>BMS 536</td>
<td>Applied Clinical Microbiology</td>
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<td>Medical Parasitology and Mycology</td>
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² BMS 101 and BMS 205 are highly recommended but not required.

### Medical Laboratory Submajor Requirements

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<td>Immunohematology and Blood Banking Laboratory</td>
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<td>Advanced Lectures in the Clinical Laboratory Sciences</td>
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<td>Advanced Clinical Immunohematology and Immunology</td>
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<td>BMS 538</td>
<td>Advanced Clinical Microbiology Practicum</td>
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Biomedical Sciences Requirements

**Year 1**

**Semester 1**

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**Semester 2**

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**Year 2**

**Semester 1**

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**Semester 2**

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**Year 3**

**Semester 1**

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1. BMS 101 and BMS 205 are highly recommended but not required.
2. ENGLISH 207 is required for students without any credit prior to Fall 2013.

**Medical Laboratory Submajor Requirements**

**Year 4**

**Semester 1**

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**Semester 2**

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<td><strong>Total Credits</strong></td>
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</table>

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Public Health Microbiology

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

Public Health Microbiology

Public health microbiology prepares students for a career in the laboratory disciplines of public health. Specifically, students will be educated in a broad range of sciences in order to perform investigatory and laboratory-based analyses of environmental samples for microbial contaminants of interest. Emphasis is placed on pathogenic disease and the human populations that they affect. Students successfully completing this program may sit for the American Society for Clinical Pathology (ASCP-BOC) Technologist in Microbiology national certification exam.

Requirements

Students must achieve the satisfactory completion of 130 credits.

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 29);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Cytotechnology, or Medical Laboratory Science;
   b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

Degree Requirements

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<td>BIO SCI 202</td>
<td>Anatomy and Physiology I 1</td>
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<td>BIO SCI 203</td>
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<tr>
<td>BIO SCI 325</td>
<td>Genetics 1</td>
<td>4</td>
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<tr>
<td>BIO SCI 383</td>
<td>General Microbiology 1</td>
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<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
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<tr>
<td>BMS 301 &amp; BMS 302</td>
<td>Human Pathophysiology: Fundamentals and Human Pathophysiology: Organ Systems I</td>
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<td>BMS 428</td>
<td>Clinical Immunology Laboratory 1</td>
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<td>BMS 534</td>
<td>Medical Microbiology</td>
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<td>CHEM 102</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis 1</td>
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</table>
the first semester of the junior year.

The process of application to the professional training occurs at the end of a four-week internship with the City of Milwaukee Health Department. The internship will involve working alongside Public Health Microbiology submajor students and gain practical experience in the field.

### Public Health Microbiology Requirements

Students in the Public Health Microbiology submajor complete an eight-week internship with the City of Milwaukee Health Department. The process of application to the professional training occurs at the end of the first semester of the junior year.

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<td>Anatomy and Physiology II</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<td>HS 224</td>
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#### Year 2

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#### Year 3

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### Code Explanation

1. Course counts towards a student’s science GPA.

2. During the fall semester of their senior year, students enrolled in the Public Health Microbiology submajor will enroll in BMS 599 with both Cindy Brown and Dr. Anthony Azenabor for two credits, but participate in BMS 547.

---

**Table: Biomedical Sciences, BS: Public Health Microbiology**

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<td>Introductory Organic Chemistry Laboratory</td>
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<tr>
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<td>Introduction to Biochemistry</td>
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<td>KIN 270</td>
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#### Year 1

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<td>Introduction to Health and Disease</td>
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#### Year 2

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<tr>
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<td>Clinical Immunology Laboratory</td>
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<td>CHEM 501</td>
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<td>Clinical Immunology Laboratory</td>
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<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
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<td>Human Parasitology</td>
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<td>BIO SCI 405</td>
<td>General Virology</td>
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**Electives**

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</table>
Radiologic technologists, or radiographers, use X-Rays and administer contrast media to produce images of the human skeleton, chest, digestive tract, and urinary system. The radiographer works closely with the radiologist or physician. Students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national registry exam administered by the American Registry of Radiologic Technologists (https://www.arrt.org/).

The Radiologic Technology professional education programs are accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606. www.jrcert.org (http://www.jrcert.org/)

### Requirements

Students pursuing the Biomedical Sciences: Radiologic Technology submajor complete the freshman and sophomore years on campus. Students accepted into the professional education curriculum complete the junior and senior years at either the on-campus UWM radiography program or off campus through external radiography programs offered at Froedtert Hospital in Milwaukee, UW Hospital & Clinics in Madison, Wheaton Franciscan All Saints in Racine, and Wheaton Franciscan St. Joseph in Milwaukee. Students are responsible for any relocation and all living expenses during clinical education.

Entry into professional training is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 29);
2. Completion of all required courses and electives (56 credits) in the freshman and sophomore semesters with a cumulative GPA of 2.5; a maximum of 4 courses may be repeated once.
3. Successful completion of the professional education application process to include an interview with the UWM radiography program and on-site interviews with the affiliated radiography programs;
4. Successful completion of a background check, health physical, and drug screen prior to the beginning of the professional curriculum, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in the following:

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<thead>
<tr>
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<th>Credits</th>
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<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
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<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
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<td>Human Pathophysiology: Organ Systems III</td>
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<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
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<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
<td>4</td>
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</table>

6. Completion of a job-shadowing experience in an imaging department with a Radiologic Technology professional prior to applying for

### Biomedical Sciences, BS: Radiologic Technology

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

### Radiologic Technology

Radiologic technologists, or radiographers, use X-Rays and administer contrast media to produce images of the human skeleton, chest,
placement into the professional education component is required; and
7. Completion of a CNA (Certified Nursing Assistant) course is highly recommended, but not required. View a list of WI nurse aide training programs at www.dhs.wisconsin.gov/caregiver/ (http://www.dhs.wisconsin.gov/caregiver/).

Additional information is available from the Office of Student Affairs, (414) 229-2758.

Admission into the professional curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional education component is required; once accepted into the professional education curriculum students will be provided with a copy of the program’s policies and procedures.

An example of the radiologic technology curriculum may be found on the Plan of Study tab.

<table>
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<tr>
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<td>Quantitative Literacy (QL) Competency Part A and B</td>
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<td>BIO SCI 203</td>
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<td>Introduction to Diagnostic Medicine</td>
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<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective (SS/CD)</td>
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<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
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<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<td>Human Pathophysiology: Organ Systems IV</td>
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<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
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<td>DMI 307</td>
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<td>DMI 308</td>
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<td>DMI 309</td>
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1 Credit may be utilized in required curriculum areas.

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### Professional Training Curriculum Course List:

*(Example of radiologic technology curriculum provided below. Curriculum course list and sequence provided to student upon advancement to major.)*

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<tr>
<td>DMI 353</td>
<td>Principles of Imaging I</td>
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<td>DMI 372</td>
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<tr>
<td>DMI 473</td>
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</tr>
<tr>
<td>DMI 480</td>
<td>Seminar in Radiography IV</td>
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<tr>
<td>DMI 474</td>
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<tr>
<td>DMI 477</td>
<td>Cross Sectional Anatomy</td>
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>DMI 360</td>
<td>Radiation Biology</td>
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<thead>
<tr>
<th>Summer</th>
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<tbody>
<tr>
<td>DMI 485</td>
<td>Professional Development in Radiography</td>
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</tbody>
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### Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

### Honors in the College of Health Sciences

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Biomedical Sciences, MS

The Biomedical Sciences Department offers a program of graduate education providing an advanced level of study for students interested in biology as it relates to human health, medicine, and disease. Major emphasis in the program is placed on developing an understanding of the mechanisms involved in human diseases and providing broad-based training in both basic and applied biomedical sciences. In-depth training is offered in selected areas of emphasis, such as immunology, the pathogenesis of infectious diseases, toxicology, pharmacology, neurodegeneration, and cancer biology. The MS degree has two tracks.

1. **Thesis Track** requirements include a thesis based on hypothesis-driven research conducted by the student to enhance problem-solving abilities and the student's capacity to function more effectively in the biomedical field.

2. The **Non-Thesis Track** is designed for students who want to gain knowledge in the biomedical sciences by taking courses focused on human health and disease without a research component. This track may be suitable for a variety of students, including those who currently work in a laboratory setting and wish to obtain a higher degree and those requiring a degree beyond the bachelor’s level to teach.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found...
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following requirements to be considered for admission:

1. The program primarily enrolls individuals with backgrounds in biomedical sciences or related fields who have completed a bachelor’s degree at an accredited institution. For students entering without a degree in a related area, the faculty determines deficiencies to be overcome prior to admission. Applications will not be reviewed until all required materials are obtained by the program. All completed applications received prior to February 1 will receive consideration for enrollment beginning the following Summer term for the Non-Thesis Track or Fall semester for the Thesis Track. Completed applications received after February 1 may be considered if space is available in the program. Students may enroll on a full-time or a part-time basis.

2. Applicants may be admitted to regular status if their grade point average is the equivalent of 2.75 or above (scale of 4.0). Averages below 2.75 may be considered for admission on a probationary basis, in which case particular attention is given to the last 60 hours completed in the undergraduate program, with special emphasis on performance in biomedical science-related courses. Probationary status is removed after successful completion of the first eight graduate credits with a grade point average of 3.0 or above.

3. Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores on the General Test are required.

4. Three letters of reference, preferably from academic and/or research sources or supervisors, must be provided.

5. The applicant must provide a statement of not more than 1,000 words providing career objectives and reasons for seeking a degree in the UWM Biomedical Sciences Graduate Program.

6. Students must identify, at the time of applying, whether they seek enrollment in the Thesis Track or Non-Thesis Track. Students wishing to change tracks after admission must receive approval of the program.

**Credits and Courses**
The minimum degree requirement is 32 graduate credits.

**Thesis Track**
Fifteen (15) core curricular credits and a minimum of 8 credits in research (BMS 799) must be taken. Substitutions to these courses require approval of the Program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 710</td>
<td>Seminar in Biomedical Sciences (1 credit per semester; 3 credits total)</td>
<td>3</td>
</tr>
<tr>
<td>BMS 717</td>
<td>Laboratory Technology-Theory and Practice</td>
<td>2</td>
</tr>
<tr>
<td>BMS 718</td>
<td>Experimental Design and Research in Biomedical Sciences</td>
<td>1</td>
</tr>
<tr>
<td>BMS 750</td>
<td>Infection and Immunity</td>
<td>3</td>
</tr>
<tr>
<td>or BMS 751</td>
<td>Immunopathology</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BMS 705</td>
<td>Molecular Pathology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 756</td>
<td>Current Concepts in Cancer</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining 9 credits required for the degree are electives, of which at least 6 must be taken for graduate credit from within the BMS Program. Program approval is required for BMS 590 credits to be applied towards the degree. BMS 599: Independent Study does not count toward completion of the degree. No more than 3 credits of BMS 999: Advanced Independent Study will be counted for the Thesis Track.

**Non-Thesis Track**
Eleven (11) core curricular credits, as well as 2 credits for the capstone project, must be taken. Substitutions to these courses require approval of the Program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 710</td>
<td>Seminar in Biomedical Sciences (1 credit per semester; 2 credits total)</td>
<td>2</td>
</tr>
<tr>
<td>BMS 750</td>
<td>Infection and Immunity</td>
<td>3</td>
</tr>
<tr>
<td>or BMS 751</td>
<td>Immunopathology</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BMS 705</td>
<td>Molecular Pathology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 756</td>
<td>Current Concepts in Cancer</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610G</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>or BMS 615G</td>
<td>Cellular and Molecular Toxicology</td>
<td></td>
</tr>
<tr>
<td>BMS 890</td>
<td>Capstone Project</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits: 13

Of the remaining 19 credits required for the degree, a minimum of 10 credits (excluding BMS 999) must be taken for graduate credit within the BMS Program. Up to nine credits may be taken as elective courses at the graduate level. These elective courses may be within the BMS Program or outside of the Program. BMS 999 will not be counted toward the Non-Thesis Track without approval from the Program.

**Additional Requirements**

**Major Professor as Advisor**
For both tracks, the student must have a major professor to advise and supervise the student’s studies.

**Thesis (Thesis Track)/Capstone (Non-Thesis Track)**
Students enrolled in the Thesis Track must write an acceptable thesis based on original research and pass a final oral examination in defense of the thesis under the supervision of a major professor. Students in the Non-Thesis Track must pass a comprehensive examination based on their coursework or complete a project based on a literature review. These are administered and evaluated by the program’s faculty and staff.
Blood Banking/Immunohematology, Undergraduate Certificate

The Certificate in Blood Banking trains students to meet the critical need for medical laboratory scientists in the workforce that make sure donated blood is safe for use in blood transfusions and other procedures. Students successfully completing this certificate are eligible to sit for the American Society for Clinical Pathology Board of Certification (ASCP-BOC) Technologist in Blood Bank exam.

Requirements

Successful completion of the undergraduate certificate in Blood Banking/Immunohematology allows the individual to sit for the American Society of Clinical Pathology Board of Certification (ASCP-BOC) Technologist/Scientist in Blood Bank national certification exam and be employable in a medical laboratory or blood center. This curriculum meets entry level practitioner competency as outlined by the American Society for Clinical Laboratory Science.

Most of the required courses are delivered in face-to-face format.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 427</td>
<td>Clinical Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 428</td>
<td>Clinical Immunology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 529</td>
<td>Introduction to Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 530</td>
<td>Immunohematology and Blood Banking Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 532</td>
<td>Advanced Clinical Immunohematology and Immunology (^1)</td>
<td>3</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 599</td>
<td>Independent Study</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

\(^1\) BMS 532 is a 4-week capstone course (120 clinical hours) of practical training experience working in a clinical blood bank laboratory.

Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
</tbody>
</table>
Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Human Biological Variation</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Human Biological Variation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 212</td>
<td>Drugs Used and Abused</td>
<td>3-4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>BMS 560 and BMS 561</td>
<td>Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory</td>
<td>21-22</td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>
Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/ CHEM/ CRM JST 285</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/ CHEM/ CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
</tbody>
</table>

or ANTHRO 404 Human Biological Variation

Additional credits with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/ CHEM/ CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/ CHEM/ CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/ CHEM/ CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/ CHEM/ CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar: (with forensic subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Molecular Diagnostics, Undergraduate Certificate

The certificate program in Molecular Diagnostics trains students in the newly emerging and rapidly evolving field of laboratory medicine. Students gain a solid foundation and the basic skills necessary for professional employment in Molecular Diagnostic programs in university and hospital laboratories, in new R&D test applications, or in the biotechnology industries serving the Molecular Diagnostics communities.

The certificate is designed to augment the basic education and skills of students currently pursuing a Bachelor of Science degree in Biomedical Sciences or Biological Sciences. With minimal additional courses, students will be able to complete a certificate in Molecular Diagnostics.

The certificate program will also be available to returning, non-degree students who wish to obtain additional credentials in Molecular Diagnostics for career development or enhancement.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMS 539 &amp; BMS 540</td>
<td>Public Health Microbiology and Public Health Microbiology Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3-4
Nutritional Sciences, BS (Department of Biomedical Sciences)

The Nutritional Sciences Program is a 120-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health.

Requirements

Admission and Prerequisites

Other Relevant Information

Quantitative Literacy (QL) Part A & B

Foreign Language

Distribution Requirements

Arts

Humanities

Natural Sciences

Social Sciences

Cultural Diversity

Students interested in pursuing this Certificate should contact the Office of Students Affairs at (414) 229-2758. The Office is located in NWQB room 6425.

Nutritional Sciences, BS (Department of Biomedical Sciences)

The Nutritional Sciences Program is a 120-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health.

Requirements

Admission and Prerequisites

Other Relevant Information

Quantitative Literacy (QL) Part A & B

Foreign Language

Distribution Requirements

Arts

Humanities

Natural Sciences

Social Sciences

Cultural Diversity

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Other Relevant Information

Quantitative Literacy (QL) Part A & B

Foreign Language

Distribution Requirements

Arts

Humanities

Natural Sciences

Social Sciences

Cultural Diversity

Students interested in pursuing this Certificate should contact the Office of Students Affairs at (414) 229-2758. The Office is located in NWQB room 6425.
Advancement to the Major

The application to the major is made available online on the program website during the months of September and February. Applications are due October 1st for spring admission and March 1st for summer/fall admission. The application may be submitted while courses above are in progress as long as they will be completed prior to the effective admission term. Applicants are notified of admission status via email from the program director within four weeks of the application deadline.

Graduation Requirements

Once admitted to the program, students must earn a minimum GPA of 2.75 in the all advanced core nutrition courses, and no more than three of the Core and Advanced Core courses may be repeated. Students must complete a minimum of 120 credits with a minimum cumulative GPA of 2.5 to be eligible for graduation.

Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Nutritional Sciences, Minor

(Department of Biomedical Sciences)

The Minor in Nutritional Sciences provides students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, and the myriad of influences on food choice and eating behavior throughout the life cycle. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological basis of nutrition, as a multidisciplinary science with relevance to health.

Upon completion of the Minor in Nutritional Sciences, students will be able to:

- Describe the relationship between food and nutrients in human health and well-being;
- Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
- Apply nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth and development, maturation, and aging;
- Examine the multiple levels of influence (i.e., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) that shape food choice and eating behavior;
- Apply scientific principles of basic food chemistry in examining food’s physical aspects and preparation; and
- Apply biological and biochemical principles to the understanding of the human digestion and metabolism of macro- and micronutrients.

Admission and Requirements

Students may declare their intent to pursue the Nutritional Sciences Minor on the program’s website. Students must satisfy the following requirements to be eligible to declare the minor:

- 2.5 Cumulative GPA
- Minimum grade of C in the following 15 credits of Core Nutrition Courses (or in progress):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 110</td>
<td>Introduction to Food Principles &amp; Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions or BMS 232</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>
Once the Admission requirements listed above are met (15 credits), students may progress and choose the 6 credits of Advanced Coursework that best meets their goals for completion of the Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Coursework</td>
<td>Select 6 credits from the following:</td>
<td>6</td>
</tr>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td></td>
</tr>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td></td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td></td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td></td>
</tr>
<tr>
<td>NUTR 550</td>
<td>Sports Nutrition</td>
<td></td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td></td>
</tr>
<tr>
<td>KIN 574</td>
<td>Obesity and Weight Management</td>
<td></td>
</tr>
</tbody>
</table>

1 This list of courses may be modified by the Nutritional Sciences Program Committee as additional courses are developed.

To be awarded the Minor in Nutritional Sciences, students will need to maintain a GPA of 2.50 with no grade lower than a C in the 21 credits of coursework.

Students concurrently enrolled in a bachelor's degree program successfully completing the program requirements will be awarded the Minor in Nutritional Sciences at the time of graduation.

Academic advisors within the College of Health Sciences Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at (414) 229-2758.

Communication Sciences and Disorders

The Department of Communication Sciences and Disorders offers a Bachelor of Science degree, which provides the pre-professional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

A career as a speech-language pathologist requires a master's degree. The Department offers a graduate program that is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA) in Speech-Language Pathology. The Wisconsin Department of Public Instruction also has approved the undergraduate/graduate program in Communication Sciences and Disorders. A career as an audiologist requires a doctoral degree (AuD or Doctor of Audiology). In Wisconsin, an AuD consortial program is offered by UW-Madison and UW-Stevens Point.

Programs

- Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders) (p. 607)
- Communication Sciences and Disorders, BS (p. 608)
- Communication Sciences and Disorders, MS (p. 611)

Undergraduate Academic Advising

Advising for all undergraduate students is provided by the Office of Student Affairs, Northwest Quadrant Building B, Room 6451, and students are strongly encouraged to confer with that advisor at least once each semester. Students are also encouraged to meet with a Department of Communication Sciences and Disorders faculty member to discuss the requirements and challenges of a career as a speech-language pathologist or audiologist. Seniors should meet with their advisor to review their final year of study and discuss opportunities for graduate study.

Faculty

The Department of Communication Sciences and Disorders offers a Bachelor of Science degree, which provides the pre-professional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

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Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders)

The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The Departments of Occupational Science and Technology and Communication Sciences Disorders in the College of Health Sciences, along with the Department of Teaching and Learning in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses. Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, and an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

Credits and Courses

Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the undergraduate level. One of the following is recommended to meet the computer applications requirement.

Code | Title | Credits
--- | --- | ---
EXCEDUC 730 | Assistive and Instructional Technology for Students with Disabilities | 3
OCCTHPY 750 | Computer Applications in Occupational Therapy Practice | 3

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td></td>
</tr>
</tbody>
</table>

Intervention

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment</td>
</tr>
<tr>
<td>OCCTHPY 596</td>
<td>Vision II: Practical Aspects of Visual Impairment &amp; Low Vision Intervention</td>
</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
</tr>
<tr>
<td>OCCTHPY 999</td>
<td>Advanced Independent Study</td>
</tr>
<tr>
<td>EXCEDUC 735</td>
<td>Technology &amp; Instruction for Students with Disabilities</td>
</tr>
</tbody>
</table>
EXEDUC/OCCTHPY 777  Fieldwork in Assistive Technology
EXEDUC 799  Independent Reading
COMSDIS 717  Special Populations in Communication Disorders
COMSDIS 791  Research Experience in Communication Sciences and Disorders
COMSDIS 799  Independent Studies

Elective
Select an additional 3 credits from either Assessment or Intervention list 3

Capstone
OCCTHPY 760  Assistive and Rehabilitation Technology 3

Total Credits 15

1 Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.
2 Any U/G course must be taken at graduate level.

Additional Requirements

Minimum Grade Requirement
To be awarded the certificate, students must earn a minimum grade of B in the certificate courses (B- not allowed).

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   • 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Communication Sciences and Disorders, BS

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Requirements
Students must achieve the following:

1. Satisfactory completion of 121 credits;
2. Satisfactory completion of the required courses in the Department of Communication Sciences and Disorders, and those required outside the department;
3. Satisfactory completion of the University General Education Requirements (p. 29);
4. A cumulative 2.5 GPA or better in all credits earned at UWM. Students should note that admission to graduate programs in speech-language pathology and audiology is highly competitive. To be competitive with other Graduate School applicants, it is recommended that students maintain a GPA greater than 3.5; and
5. Completion of the last 30 credits in residence at UWM.

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<tr>
<td>COMSDIS 210</td>
<td>Survey of Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 220</td>
<td>Anatomy and Physiology of Speech, Hearing, and Language Mechanisms</td>
<td>4</td>
</tr>
<tr>
<td>COMSDIS 230</td>
<td>Introduction to Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>COMSDIS 240</td>
<td>Normal Speech and Language Development</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>COMSDIS 250</td>
<td>Interprofessional Communication in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 350</td>
<td>Clinical Process I: Articulation and Phonology Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 351</td>
<td>Clinical Process II: Child Language Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 380</td>
<td>Bases of Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 450</td>
<td>Bases of Fluency and Voice Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 460</td>
<td>Survey of Adult Neurogenic Language and Speech Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 470</td>
<td>Introduction to Audiology</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 480</td>
<td>Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 490</td>
<td>Audiologic (Re)Habilitation</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 520</td>
<td>Counseling in Communication Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>

**Extra-Departmental Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>or SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHS 100</td>
<td>New Student Seminar in Health Professions</td>
<td>1</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>or EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 400</td>
<td>Introduction to English Linguistics</td>
<td></td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>or CHEM 101</td>
<td>Chemical Science</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 207</td>
<td>Health Science Writing</td>
<td></td>
</tr>
</tbody>
</table>

**Select one of the following:**

- KIN 270: Statistics in the Health Professions: Theory and Practice
- PSYCH 210: Psychological Statistics
- ED PSY 624: Educational Statistical Methods I

**Select one of the following:**

- ED POL 375: Cultural Foundations of Education
- ED POL 500: Sociology and Policy of Urban Communities and Schools
- ED POL 530: Urban Education: Foundations
- ED POL 650: The Civil Rights Movement in Northern Cities

**Select one of the following:**

- Currins 343: Teaching of Reading (ExcEduc sec)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 643</td>
<td>Balanced Literacy Instruction in the Elementary School</td>
<td></td>
</tr>
<tr>
<td>CURRINS 537</td>
<td>Literacy 2: Assessing and Teaching</td>
<td></td>
</tr>
<tr>
<td>CURRINS 661</td>
<td>The Role of the Speech-language Pathologist in Literacy</td>
<td></td>
</tr>
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</table>

**Select one of the following:**

- HIST 263: North American Indian History Since 1887
- AIS 203: Western Great Lakes American Indian Community Life of the Past

1 Satisfied through required courses in the program.

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>CHS 100</td>
<td>New Student Seminar in Health Professions</td>
<td>1</td>
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<tr>
<td></td>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td></td>
<td>COMSDIS 210</td>
<td>Survey of Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
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<tr>
<td></td>
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Year 1 Semester 2

<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>or SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>Electives 4</td>
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Year 2 Semester 1

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 207</td>
<td>Health Science Writing</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 230</td>
<td>Introduction to Phonetics</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 250</td>
<td>Interprofessional Communication in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4-5</td>
</tr>
<tr>
<td>or CHEM 101</td>
<td>Chemical Science</td>
<td></td>
</tr>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
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Year 2 Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 220</td>
<td>Anatomy and Physiology of Speech, Hearing, and Language Mechanisms</td>
<td>4</td>
</tr>
<tr>
<td>COMDIS 240</td>
<td>Normal Speech and Language Development</td>
<td>2</td>
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<tr>
<td>COMDIS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
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Year 3 Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMSDIS 350</td>
<td>Clinical Process I: Articulation and Phonology Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 380</td>
<td>Bases of Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 400</td>
<td>Introduction to English Linguistics</td>
<td></td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>Electives 3</td>
<td></td>
<td>3</td>
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</tbody>
</table>

Year 3 Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 351</td>
<td>Clinical Process II: Child Language Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 450</td>
<td>Bases of Fluency and Voice Disorders</td>
<td>3</td>
</tr>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Fall of 2020
Communication Sciences and Disorders will consider individual student appeals for admission to the major. Students are notified in writing of the faculty’s decision concerning the appeal.

Individuals who have an educational background in Communication Sciences and Disorders have a variety of employment and career opportunities available to them upon completion of the Bachelor’s Degree. For those interested in working with children and adults with disabilities, positions may be found in schools, agencies, health-care facilities, and government. The Communication Sciences and Disorders undergraduate major also provides a good preparation for graduate and certification training in human service-related fields.

### Examples of Jobs for Undergraduate Majors

- Care Coordinator for high-risk children and families
- Case Manager for individuals with developmental disabilities
- Job Coach
- Activity Assistant
- Life Skills Instructor
- Rehabilitation Technician (assists rehabilitation professionals in healthcare settings)
- Classroom Aide
- Special Ed Educational Assistant
- Autism Line Therapist
- In-home Behavioral Support Specialist
- Substitute Teacher
- Childcare Teacher (certification required)
- Peer Recovery Specialist (certification required)

### Jobs Requiring Additional Education (graduate degree or post-baccalaureate certification)

- Speech-Language Pathologist
- Audiologist
- Social Worker
- Occupational Therapist
- Manager, Day Services Program
- Special Education Teacher
- Reading Specialist
- Vocational Rehabilitation Counselor
- Manager, Autism Therapy Agency

### Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

### Honors in the College of Health Sciences Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 263 or AIS 203</td>
<td>North American Indian History Since 1887 or Western Great Lakes American Indian Community Life of the Past</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 460</td>
<td>Survey of Adult Neurogenic Language and Speech Disorders</td>
<td>3</td>
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<tr>
<td>COMSDIS 470</td>
<td>Introduction to Audiology</td>
<td>3</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Semester 2</td>
<td></td>
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<tr>
<td>COMSDIS 490</td>
<td>Audiologic (Re)Habilitation</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 520</td>
<td>Counseling in Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 480</td>
<td>Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>CURRENS 537 or CURRENG 643</td>
<td>Literacy 2: Assessing and Teaching Literacy through Early Adolescence or Balanced Literacy Instruction in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 600 or EXCEDUC 300</td>
<td>Survey of Exceptional Education or The Exceptional Individual</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 121-122

1. Electives should be used to meet general education requirements.
2. COMSDIS 220, COMSDIS 230, and COMSDIS 240 must have a minimum cumulative GPA of 3.00 for admission to the major.
3. These courses meet a subset of the requirements for Wisconsin Department of Public Instruction for School Certification in Speech-Language Pathology.

---

### Admission to the Major

To be accepted as a communication sciences and disorders major you must have:

1. A cumulative GPA of 2.75 or better in at least the first 58 credits taken;
2. A GPA of 3.0 or better in COMSDIS 220, COMSDIS 230, and COMSDIS 240;
3. Completion of Oral and Written Communication - Part A competency;
4. Completion of Quantitative Literacy - Part A competency;
5. Completion of an application form (http://uwm.edu/healthsciences/wp-content/uploads/sites/129/2015/07/CSD-Application-Degree-Students.pdf) for admission to the major. Applications are available in the College of Health Sciences Office of Student Affairs, Northwest Quadrant Building B, Room 6451; and
6. Endorsement by the faculty of the student’s written application.

Students will receive written notice of the admission decision. A meeting with your advisor to discuss the program of study is required immediately following admission to the major.

### Appeal Procedures

Students who are refused admission to the major may appeal the decision by writing to the department chairperson and enumerating the reasons they believe their case is exceptional and merits additional consideration. If possible, the appeal should be accompanied by written support from one or more of the faculty, and should include documentation of any extenuating circumstances cited in support of the appeal. A committee composed of the entire faculty of the Department of Communication Sciences and Disorders will consider individual student
Honors Degree and Honors Degree with Thesis
Granting to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Undergraduate Program Coordinator
Enderis Hall

**Phone:** use dept phone number

**Communication Sciences and Disorders, MS**
The Department of Communication Sciences and Disorders offers a program of graduate study which prepares students for careers as speech-language pathologists in public schools, hospitals, rehabilitation centers, nursing homes, and university training programs. The program typically takes 2 calendar years to complete. Students usually prepare for service delivery in both school and healthcare clinical settings to maximize career flexibility. Occasionally, students may choose to focus career preparation on just one type of setting.

Departmental laboratory and instructional facilities include a speech and language clinic, a hearing evaluation center, an instructional communication sciences laboratory, and faculty research laboratories. Research and instructional laboratories contain state-of-the-art technology, a variety of acoustic and physiological measurement systems including a swallow station, and augmentative and alternative communication (AAC) devices. Students typically participate in at least three semesters of on-campus clinic. Student participation in a research experience is required.

Following a minimum of two successful practicum experiences in the on-campus clinics, students are eligible for off-campus externships in medical, rehabilitation, school, and birth-to-three sites. A successful practicum experience is one in which a student earns a grade of B or better. Students placed in these facilities are required to pass a criminal background check prior to the externship placement, in accordance with Wisconsin State Statutes, Chapters 48 and 50.

The master's degree program in speech-language pathology (MS in Communication Sciences and Disorders) at the University of Wisconsin-Milwaukee is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (http://asha.org/academic/accreditation/) of the American Speech-Language-Hearing Association, 2200 Research Boulevard, Rockville, MD 20850-3289, 301-296-5700. The Wisconsin Department of Public Instruction (DPI) has also approved the undergraduate/graduate program in communication sciences and disorders. Students in the graduate program are advised individually to select academic coursework and clinical practica so that they may fulfill the standards of the credentials of their choice, including the state professional license issued by the Wisconsin Department of Regulation and Licensing (DRL), a state public schools license issued by the Wisconsin Department of Public Instruction (DPI), and the national professional Certificate of Clinical Competence in Speech-Language Pathology (CCC) issued by the American Speech-Language-Hearing Association (ASHA).

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

- Undergraduate major in communication sciences and disorders.
- A cumulative overall grade point average of 3.0 or better (scale of 4.0).
- Minimum grade point average of 3.0 or better in the undergraduate major courses.
- Submission of three letters of recommendation from persons familiar with applicant's academic qualifications and achievements.
- Submission of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores.
- Students must apply to the program using the Communication Sciences and Disorders Centralized Application Service (CSDCAS) (https://portal.csdcas.org/).

See the CSD FAQ Website (http://uwm.edu/healthsciences/academics/masters-communication-sciences-disorders/#faq) for more information.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Students preparing for professional certification in speech-language pathology must also have transcript credit (which could include coursework, advanced placement, CLEP, or examination of equivalency) for each of the following areas: biological sciences, physical sciences, social/behavioral sciences, and mathematics.

**Credits and Courses**
Minimum degree requirement is 49 credits, although total degree credits are typically around 53.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum</td>
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<td>34</td>
</tr>
</tbody>
</table>

Select 34 credits from the following:
### Electives

Select 2 credits of electives (see below)  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 670</td>
<td>Advanced Procedures in Aural Rehabilitation for the SLP</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 701</td>
<td>Research Design and Methods in Communication Sciences and Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 702</td>
<td>Clinical Phonology and Articulation</td>
<td>1-3</td>
</tr>
<tr>
<td>COMSDIS 703</td>
<td>Voice Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 704</td>
<td>Speech Fluency and Stuttering</td>
<td>1-3</td>
</tr>
<tr>
<td>COMSDIS 706</td>
<td>Language Assessment and Intervention</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 709</td>
<td>Evaluation and Management of Swallowing Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 710</td>
<td>Motor Speech Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 712</td>
<td>Acquired Neurogenic Communication Disorders in Adults</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 721</td>
<td>The Clinical Process</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 725</td>
<td>Speech/Language Services in Educational and Medical Environments</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 784</td>
<td>Professional Portfolio Development I</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 785</td>
<td>Professional Portfolio Development II</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 790</td>
<td>or COMSDIS 791</td>
<td>2</td>
</tr>
</tbody>
</table>

The student must complete all degree requirements within seven years of obtain, and that all competencies and standards have been met.

The student, in consultation with the major advisor, plans the appropriate practicum courses for on-campus clinics and off-campus externships to meet ASHA certification, DPI and Wisconsin licensure requirements. Only clinical clock hours for practicum experiences in which the student has earned a grade of B or better will apply toward degree, certification, or licensure requirements.

Students who have fulfilled the program’s student learning outcomes in U/G courses (for example, COMSDIS 670) will be waived from taking these courses as part of their graduate program. However, students must still take a minimum of 36 graduate credits in academic coursework, and must have a minimum of 49 total graduate credits to complete degree requirements.

### Thesis

Optional. A student may earn up to 6 credits for a thesis (COMSDIS 790) if this option is selected. One of these credits will apply toward the core curriculum, two credits may apply toward the elective credit requirement, and the rest may apply toward the total of 49 credits required for the degree.

### Research Experience

Students who do not choose the thesis option are required to engage in a one-credit research experience (COMSDIS 791). This experience may involve (but is not limited to) a small-scale original study, a project related to the on-going research of a faculty member, a clinical case study, or a literature review. Students may work individually or in groups. The final product can be either a research paper or a poster of the research findings, presented at a departmental research colloquium.

### Additional Requirements

#### Major Professor as Advisor

The student must have a major professor to advise and supervise the graduate studies as specified in Graduate School regulations. Entering students are assigned advisors according to faculty advising loads.

#### Knowledge and Skills Acquisition (KASA) Assessment

All students will be responsible for completion of the Knowledge and Skills Acquisition (KASA) assessment, which assesses student attainment of learning outcomes in a variety of content areas. Students who are judged by program faculty and staff to be deficient in one or more content areas will be required to take additional coursework or clinical practica until their deficiencies have been satisfied.

Completion of the degree program affords the necessary opportunities to meet licensure and certification requirements. However, it is still the student’s responsibility to ensure that his or her individual course and practicum choices are consistent with the credentials he or she seeks to obtain, and that all competencies and standards have been met.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.
Food Studies, Undergraduate Certificate (College of Health Sciences)

Lori Klos, Assistant Professor, Kinesiology, Co-Coordinator, END 455, (414) 229-3162, lklos@uwm.edu
Larry Kuiper, Associate Professor, French, Co-Coordinator, CRT 782, (414) 229-5966, kuiper@uwm.edu

The College of Letters and Science cooperates with the College of Health Sciences to offer an undergraduate certificate in Food Studies. The certificate is designed to help students become proficient at:

1. Investigating and analyzing food systems and practices in a variety of cultural, social, and geographical settings;
2. Presenting their critical reflections on the forces that surround these systems and practices in both written and oral form;
3. Using information (statistical, textual, first-hand accounts, etc.) as a basis for formulating plans for personally and socially responsible action pertinent to local and global food and health; and
4. Becoming active in the community by participating in activities that develop responsible and sustainable practices, promote cross-cultural understanding, and help people in disparate professions or academic fields understand the relationships the study of food has with their own specializations.

The program is administered by an advisory committee composed of faculty members from both the College of Letters and Science and the College of Health Sciences.

The interdisciplinary undergraduate certificate program in Food Studies explores the many facets of food, from the field and sea to the table, through the lenses of the arts, humanities, and natural and social sciences. Combining courses in the Liberal Arts and Health Sciences, it addresses the production and consumption of food and its symbolic and ideological meanings, across cultures and over time, from the beginning of agriculture to globalization.

Eligibility

The Certificate in Food Studies is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular University admission requirements. The Certificate is awarded jointly by the College of Health Sciences and the College of Letters and Science.

Students concurrently enrolled in a degree program who successfully complete the certificate program requirements will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon completion of the program requirements. Graduate students are eligible to pursue the Food Studies certificate concurrently with their graduate studies, and they will be awarded the certificate upon completion of the program requirements.

Requirements

To earn the certificate, students must complete 18 credits in approved Food Studies courses, with a minimum grade point average of 2.500, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOODBEV 101</td>
<td>Introduction to Food Studies (with a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences, and at least one course in natural or health sciences, nursing, or engineering.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A senior research or capstone course offered by another program and approved as a Food Studies content course</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and at least 9 credits must be taken in residence at UWM. No more than 9 credits in one curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

Approved Electives

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOODBEV 101</td>
<td>Introduction to Food Studies (with a grade of C or better)</td>
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</tr>
<tr>
<td></td>
<td>Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences, and at least one course in natural or health sciences, nursing, or engineering.</td>
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<td>Select one of the following:</td>
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<tbody>
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</tr>
<tr>
<td></td>
<td>Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences, and at least one course in natural or health sciences, nursing, or engineering.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A senior research or capstone course offered by another program and approved as a Food Studies content course</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and at least 9 credits must be taken in residence at UWM. No more than 9 credits in one curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

Approved Electives

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOODBEV 101</td>
<td>Introduction to Food Studies (with a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences, and at least one course in natural or health sciences, nursing, or engineering.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>3</td>
</tr>
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<tr>
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<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>3</td>
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Health Informatics and Administration

The fast-growing field of health care informatics seeks professionals with highly specialized training in IT and health care. The program’s interdisciplinary, expert faculty provide training in critical skills like systems analysis and design, decision support, health care applications and procurement and information security.

Programs

- Health Care Administration, BS (p. 614)
- Health Care Administration, Minor (p. 617)
- Health Care Informatics, MS (p. 617)
- Health Care Informatics, MS/Library and Information Science, MLIS (p. 618)
- Health Care Informatics, Undergraduate Certificate (p. 619)
- Healthcare Administration, MHA (p. 620)
- Healthcare Compliance, Graduate Certificate (p. 621)

Faculty

Name | Rank | Degree | School | Graduate Faculty | Emeritus Faculty
--- | --- | --- | --- | --- | ---
Ron Cisler | Professor | PhD | University of Wisconsin-Milwaukee | ✔ | ✔
Jennifer Fink | Assistant Professor | PhD | University of Wisconsin-Milwaukee | ✔ | ✔
Rene Gratz | Professor | PhD | Queen's University, Belfast, UK | ✔ | ✔
Jake Luo | Assistant Professor | PhD | Queen's University, Belfast, UK | ✔ | ✔
John Lynch | Associate Professor | PhD | Queen's University, Belfast, UK | ✔ | ✔
Mary K. Madsen | Professor | PhD | Rensselaer Polytechnic Institute | ✔ | ✔
Priya Nambisan | Associate Professor | PhD | Rensselaer Polytechnic Institute | ✔ | ✔
Neil Oldridge | Professor | PhD | Rensselaer Polytechnic Institute | ✔ | ✔
Kathleen Olewinski | Clinical Associate Professor | MS, RHIA, NHA, FACHE | Cardinal Stritch University | ✔ | ✔
Hanh Trinh | Associate Professor | PhD | Medical College of Virginia | ✔ | ✔
Min Wu | Associate Professor | PhD | University of North Carolina | ✔ | ✔
Barbara J. Zabawa | Clinical Assistant Professor | JD, MPH | University of Wisconsin-Madison | ✔ | ✔

Health Care Administration, BS

Like all businesses, health care organizations require strong leadership to run smoothly. As an experienced health care administrator, your career could span the operation of a single department to executive leadership and management positions in which you’re responsible for millions of dollars of facilities and equipment as well as hundreds of employees.

Our undergraduate health care administration program will help you master the basic business principles and tools that you’ll need for
effective decision-making when you enter this field: finance, information systems, strategic planning, human resource management and marketing. You’ll also develop strong management and leadership abilities — such as business skills, problem-solving, communication, relationship management, diplomacy, collaboration, teamwork, adaptability, change management and mentoring — that will be essential to your success.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Major Requirements</td>
<td></td>
<td>69</td>
</tr>
<tr>
<td>Extra-Departmental Requirements</td>
<td></td>
<td>43</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>124</td>
</tr>
</tbody>
</table>

Course of Study

The Health Care Administration program offers a four-year curriculum leading to a Bachelor of Science (BS) degree in Health Care Administration. The curriculum includes all necessary requirements for a minor in business administration. Students begin by taking freshman- and sophomore-level foundation courses in the biological and health sciences, health information administration, as well as the liberal arts. This coursework provides a solid basis for the advanced study of healthcare administration that follows. Successful completion of a faculty-supervised, semester-long internship (minimum of 120 hours) at an approved healthcare agency is required in the senior year.

Admission to the Major

The Health Care Administration program will consider applications to the major at the end of each semester, as long as the student’s cumulative UWM GPA is 2.5 or above, the student has completed the admission prerequisite courses, and the student has met the grade requirements for required courses. Students are encouraged to apply to the major as soon as they meet these requirements and have achieved sophomore status.

Application forms for admission to the major in HCA can be accessed online or can be requested from the College of Health Sciences (CHS) Office of Student Affairs. Completed application forms and copies of transcripts of previous college work can be submitted to the CHS Office of Student Affairs. The following courses are prerequisites for admission:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Completion of the UWM English competency requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 104</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>Math placement level C on the proficiency test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
</tbody>
</table>

Students are required to earn a grade of C+ or higher in all HCA and HS courses, and a grade of C or higher in all other required courses. Students who twice earn a grade lower than these requirements in any required course will not be admitted, and if previously admitted, will be dismissed from the HCA major. Such students can submit an appeal to remain in the HCA major.

No student applying to the program with a cumulative UWM GPA lower than 2.5 will be admitted. A student whose cumulative UWM GPA falls below 2.5 will be placed on probationary status and will not be able to graduate with the degree in Health Care Administration until his or her cumulative UWM GPA is 2.5 or higher. Students remaining on probation for more than two consecutive semesters will be dismissed from the major.

Requirements for Internship

The faculty-supervised internship (minimum of 120 hours) is an integral component of the Health Care Administration major. Students, under the direction of a preceptor, are given opportunities for management-related experience in local, national, and international healthcare organizations. Students must be admitted to the major and complete the internship application form by October 1 to be considered for the spring semester and March 1 for the fall semester. Summer internships will be considered for approval on a case-by-case basis, and the application deadline is March 1. Prior to internship, students must complete a background check and must meet physical and health screening requirements.

Graduation Requirements

The following requirements must be met to graduate:

1. Completion of the required credits;
2. A cumulative UWM GPA of 2.5;
3. A grade of C+ or better in all Health Care Administration courses (HCA & HS) and a C or better in all other required courses; and
4. Completion of all University General Education Requirements (p. 29).

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>University General Education Requirements</td>
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</tr>
<tr>
<td>Competency Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication (OWC) Part A &amp; B:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking ¹</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy (QL) Part A &amp; B:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice ¹</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
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<tr>
<td>Distribution Requirements ¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
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<td></td>
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<tr>
<td>Electives</td>
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<td></td>
</tr>
<tr>
<td>Select 6 credits ¹</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Major Requirements</td>
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<td></td>
</tr>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle ¹</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HCA 249</td>
<td>Writing for Professional Development in Health Administration ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Indicates a requirement for the major.
HCA 300 Professional Development Seminar for Health Administration Students 1
HCA 307 Epidemiology for the Health Sciences 3
HCA 333 Health Organizations Professional Practice Standards 2
HCA 340 Healthcare Process Measurement 3
HCA 361 Post-Acute Care and Management 3
HCA 400 Healthcare Marketing 3
HCA 421 Operations Management in Healthcare Organizations 3
HCA 422 Human Resource Management in Healthcare Organizations 3
HCA 450 Healthcare Quality Management 3
HCA 460 Healthcare Reimbursement Systems and Policies 3
HCA 502 Healthcare Delivery Systems: National and International Perspectives 3
HCA 521 Advanced Systems Thinking and Strategy for Healthcare Leaders 3
HCA 537 Health Information Technology and Management 3
HCA 541 Healthcare Information Systems Analysis and Design 3
HCA 580 Health Care Administration Internship 4
HS 101 Introduction to Health and Disease 2
HS 102 Healthcare Delivery in the United States 3
HS 105 Survey of the Health Professions 3
HS 222 Language of Medicine 3
HS 224 Computational Tools for Healthcare Professionals 3
HS 311 Law and Ethics for Healthcare Professionals 3

Extra-Departmental Requirements

BIO SCI 202 Anatomy and Physiology I 4
BIO SCI 203 Anatomy and Physiology II 4
BUS ADM 201 Introduction to Financial Accounting 4
BMS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective 3
BUS ADM 330 Organizations 3
BUS ADM 350 Principles of Finance 3
BUS ADM 360 Principles of Marketing 3
BUS ADM 370 Introduction to Supply Chain Management 3
ECON 103 Principles of Microeconomics 3
ECON 104 Principles of Macroeconomics 3
ECON 450 Health Economics 3
PSYCH 101 Introduction to Psychology 3
MATH 211 Survey in Calculus and Analytic Geometry 4

Total Credits 124

1 General Education Requirements (GERs): The courses required within the HCA curriculum satisfy the University’s General Education requirements for Cultural Diversity, Social Sciences, Natural Sciences, Quantitative Literacy and Oral and Written Communication; students should use their elective credits to satisfy GER requirements for the Humanities and the Arts.

Curriculum for the Health Care Administration Major

Year 1
Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 202</td>
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<tr>
<td>HS 101</td>
<td>2</td>
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<tr>
<td>HS 105</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</table>

Semester 2

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BIO SCI 203</td>
<td>4</td>
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<tr>
<td>COMMUN 103</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>3</td>
</tr>
<tr>
<td>HS 224</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
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<tr>
<td><strong>Total Credits</strong></td>
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</tr>
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</table>

Year 2
Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ECON 103</td>
<td>3</td>
</tr>
<tr>
<td>HS 102</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
<td>3</td>
</tr>
<tr>
<td>HCA 249</td>
<td>3</td>
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<tr>
<td><strong>Total Credits</strong></td>
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</tr>
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</table>

Semester 2

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>ECON 104</td>
<td>3</td>
</tr>
<tr>
<td>HCA 203</td>
<td>3</td>
</tr>
<tr>
<td>HCA 307</td>
<td>3</td>
</tr>
<tr>
<td>BMS 245</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>4</td>
</tr>
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<td><strong>Total Credits</strong></td>
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</table>

Year 3
Semester 1

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<tr>
<th>Course</th>
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<tr>
<td>BUS ADM 201</td>
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<td>BUS ADM 330</td>
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</tr>
<tr>
<td>HCA 450</td>
<td>3</td>
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<tr>
<td>HCA 537</td>
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<td>HCA 300</td>
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<td>HCA 361</td>
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</table>

Semester 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS ADM 350</td>
<td>3</td>
</tr>
<tr>
<td>ECON 450</td>
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</tr>
<tr>
<td>HCA 333</td>
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</tr>
<tr>
<td>HCA 340</td>
<td>3</td>
</tr>
<tr>
<td>HCA 541</td>
<td>3</td>
</tr>
<tr>
<td>HS 311</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>17</td>
</tr>
</tbody>
</table>
The University of Wisconsin-Milwaukee (UWM) requires students to complete 17 credits on which a minimum cumulative GPA of 2.5 is achieved. To obtain the minor, students must be declared once they have completed a minimum of 45 credits.

The minor in Health Care Administration consists of 17 credits and may be declared at any time. The minor is designed to provide students with a foundation in healthcare administration and prepare them for careers in the healthcare industry. The minor requires students to complete a variety of courses in areas such as healthcare delivery systems, healthcare reimbursement, healthcare marketing, and human resource management in healthcare organizations.

### Health Care Administration, Minor Requirements

The minor in Health Care Administration consists of 17 credits and may be declared at any time. To obtain the minor, a student must complete at UWM the 17 credits on which a minimum cumulative GPA of 2.5 is achieved. Declaration forms for the Health Care Administration Minor are available in the College of Health Sciences, Office of Student Affairs, NWQ Building B, 6th Floor. For more information or to schedule an advising appointment, please call (414) 229-2758.

### Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

### Honors in the College of Health Sciences

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Health Care Informatics, MS

The Department of Health Informatics and Administration in the College of Health Sciences offers the Master of Science in Health Care Informatics degree. Health care informatics focuses on the use of information technologies, data analytics and automation to improve health care. Professional expertise in health care informatics is needed by hospitals and other health care providers, medical centers and facilities, medical software companies, pharmaceutical companies, public health organizations, health insurance companies and medical research institutions. The master’s program is designed to meet the demand for highly trained health care informatics professionals. The curriculum covers several areas including: systems analysis and design, database design and management, clinical decision support and computer programming. Students also get exposed to cutting-edge research in areas such as big data, predictive analytics, natural language processing, medical knowledge representation and information retrieval, which are rapidly becoming indispensable for improving health care.

The program is designed for both full-time and part-time students. Courses are offered both face-to-face and online. Mid-career professionals can use the fully online option for completing the degree.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) and submit GRE scores taken within the past five years (GRE requirement will be waived for applicants who already hold another master’s degree or PhD, or the equivalent). No specific undergraduate major is necessary for admission. A typical applicant will have background in a health-related field or in an information/computer related field, but applicants from other academic or professional backgrounds are welcome to apply who will be considered on a case-by-case basis.

### Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HS 311</td>
<td>Law and Ethics for Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HCA 333</td>
<td>Health Organizations Professional Practice Standards</td>
<td>2</td>
</tr>
<tr>
<td>HCA 422</td>
<td>Human Resource Management in Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 537</td>
<td>Health Information Technology and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

1 General Education Requirements (GERs): The courses required within the HCA curriculum satisfy the University’s General Education requirements for Cultural Diversity, Social Sciences, Natural Sciences, Quantitative Literacy and Oral and Written Communication. Students should use their elective credits to satisfy GER requirements for the Humanities and the Arts.
Credits and Courses

The Master of Science in Health Care Informatics degree will be awarded upon completion of appropriate 32 credits (non-thesis option) or 35 credits (thesis option) of prescribed graduate study; 23 credits of core courses and 6 credits of electives are required, plus either 3 credit HCA 891 or 6 credits HCA 890.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 700</td>
<td>Introduction to Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 741</td>
<td>Essential Programming for Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
</tr>
<tr>
<td>HCA 723</td>
<td>Health Care Systems Applications - Administrative and Clinical</td>
<td>3</td>
</tr>
<tr>
<td>HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>HCA 722</td>
<td>Legal, Ethical and Social Issues in Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 740</td>
<td>Introduction to Biomedical Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>HCA 742</td>
<td>Computational Intelligence in Health Informatics</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives | Select two of the following: ¹ | 6 |
| HCA 712 | Health Information Technology Procurement                      |       |
| HCA 743 | Predictive Analytics in Healthcare                              |       |
| HCA 744 | Text Retrieval and Its Applications in Biomedicine             |       |
| HCA 745 | Health Big Data Processing Platforms                            |       |
| HCA 776 | Biomedical Natural Language Processing                         |       |
| HCA 789 | Biomedical Information Extraction                               |       |
| HCA 909 | Guided Teaching Experience in Health Sciences                  |       |
| HS 917  | Seminar in Health Outcomes Assessment                          |       |

| Project or Thesis |                                                                 |       |
| HCA 890 | Health Care Informatics Research and Thesis (taken for 6 credits) | 3-6    |
| or HCA 891 | Health Care Informatics Professional Project                    |         |

Option B: Thesis Option

The thesis option requires students to plan, design, execute and report results of original applied or basic research. Students who choose the thesis option are responsible for identifying a HIA major professor and a thesis committee. The thesis committee should consist of the major professor and at least two other graduate faculty. The student must pass a comprehensive oral examination in defense of the completed thesis. Students who choose this option count 6 credits of HCA 890 toward the required 35-graduate-credit minimum.

Additional Requirements

Major Professor as Advisor

A student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. Initially the director of the HCI Program advises and supervises newly admitted students. Students are then assigned faculty advisors according to faculty advising loads.

Program Completion Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Health Care Informatics, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MS Health Care Informatics

The MLIS/MS Health Care Informatics Coordinated Degree Program is designed to provide students with theoretical and practical exposure to the evolving field of healthcare informatics as practiced in hospitals, clinics, professional offices, corporations, the government, the insurance industry, and higher education.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
Admission

Students are admitted to both graduate programs separately and admission requirements (http://uwm.edu/graduateschool/admission/) are consistent with those specified by the UWM Graduate School, the Department of Healthcare Informatics, and the MLIS program (http://uwm.edu/graduateschool/library-information-science/) of the School of Information Studies.

Credit and Courses

Students accepted into this MS/MLIS program complete the following courses:

### Healthcare Informatics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 700</td>
<td>Introduction to Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 740</td>
<td>Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 813</td>
<td>Concepts and Languages</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 757</td>
<td>Data Base Organization and File Structure</td>
<td></td>
</tr>
<tr>
<td>HCA 542</td>
<td>Healthcare Database Design and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 748</td>
<td>Managing Information Technology Projects</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 814</td>
<td>Enterprise Knowledge &amp; Semantic Management</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 720</td>
<td>Computational Models of Decision Making</td>
<td></td>
</tr>
<tr>
<td>HCA 744</td>
<td>Text Retrieval and Its Applications in Biomedicine (pending)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>HCA 721</td>
<td>Health Information Technology Procurement</td>
<td>3</td>
</tr>
<tr>
<td>HCA 723</td>
<td>Health Care Systems Applications - Administrative and Clinical</td>
<td>3</td>
</tr>
<tr>
<td>HCA 890</td>
<td>Health Care Informatics Research and Thesis</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 891</td>
<td>Health Care Informatics Professional Project</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 30

### Electives

Select at least four of the following: 12-15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies (Culminating experience for the degree)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Elective

Select 3 credits: 3

Total Credits: 27-30

Students also must pass a comprehensive examination, or submit and successfully defend a thesis. The thesis option requires additional credits.

- Minimum Credits for MS: 29
- Minimum MLIS Credits: 27
- Minimum Total Credits for the Program: 56

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

Additional Requirements

Time Limit

Students in the coordinated MS/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

### Health Care Informatics, Undergraduate Certificate

(Offered cooperatively by the University of Wisconsin-Milwaukee College of Health Sciences and School of Information Studies.)

UWM offers a certificate in Health Care Informatics, as well as a Master of Science (MS) in Health Care Informatics and a PhD in Medical Informatics. The Certificate in Health Care Informatics provides undergraduate students with the educational foundation to pursue health informatics graduate studies. Students may work towards the certificate concurrently with any undergraduate major or as a post-baccalaureate certificate.

Healthcare organizations employ a vast and complex array of information systems. In order to utilize and maintain these systems, many more knowledgeable and skilled employees are needed.
The objectives of the program are to prepare students to understand, analyze, and evaluate information technology used to perform administrative and clinical tasks in a healthcare organization.

The program is of value to students in the health professions, information studies, and related areas of study who are seeking professional employment with hospitals, clinics, health insurance and pharmaceutical companies, as well as with vendors who have designed, developed, and installed healthcare information systems.

The purpose of the Certificate in Health Care Informatics is to provide an introduction and basic foundation for health professionals, information studies, and other students in the emerging practice of healthcare informatics.

Requirements
Certificate goals:
1. Introduction to information technology theory and application;
2. Analysis and design of information systems in a healthcare environment;
3. Design, creation, and management of healthcare database systems; and
4. Legal aspects of information products and services.

Curriculum
The following requirements must be successfully completed to obtain a Certificate in Health Care Informatics. A minimum grade of C is required in each of the following courses, as well as a 2.50 cumulative GPA across all required courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>or BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td></td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td></td>
</tr>
<tr>
<td>INFOST 315</td>
<td>Knowledge Organization for Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>HCA 537</td>
<td>Health Information Technology and Management</td>
<td>3</td>
</tr>
<tr>
<td>HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 340</td>
<td>Introduction to Systems Analysis</td>
<td></td>
</tr>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services¹</td>
<td>3</td>
</tr>
<tr>
<td>or HS 311</td>
<td>Law and Ethics for Healthcare Professionals</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

¹ HS 311 allowed only in Flexible Option. All other students enroll in INFOST 465.

Students can declare this certificate by contacting their advisor. Certificates are awarded upon completion of all requirements or at time of graduation for students seeking a bachelor’s degree.

Healthcare Administration, MHA

The Department of Health Informatics and Administration offers the Master of Healthcare Administration (MHA) to provide evidence-based training in micro and macro theory and practice to advance the health of individuals and communities—local, national, and international. The program enables students to understand the complex interrelationships between health organizations, societal and cultural contexts, and biological systems, and emphasizes the well-being of the individuals and populations affected by these complex interrelationships. The UWM MHA program is accredited by the Commission on Accreditation of Healthcare Management Education (CAHME) and is the only CAHME-accredited MHA program in the State of Wisconsin.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) and submit GRE, GMAT, or other graduate entrance exam scores taken within the past five years. Exceptions to the entrance exam requirement will be determined on a case-by-case basis for exceptional prior professional experience or exceptional academic performance. Credits earned in these courses do not count toward the degree.

Credits and Courses

MHA Options

There are three options for the MHA:

Option 1: Face-to-Face Program
(39 credits required for graduation)

All courses are offered in face-to-face sections; 30 credits of required courses, a 2-credit internship, 1-credit MHA capstone course and 6 credits of electives are required.

Option 2: Online program
(39 credits required for graduation)

All courses are offered online; 30 credits of required courses, a 2-credit internship, 1-credit MHA capstone course and 6 credits of electives are required.

Option 3: Executive Online program
(33 credits required for graduation)

All courses are offered online; 30 credits of required courses, a 2-credit internship and 1-credit MHA capstone course required. Admission to the Executive Online program requires previous health-related administrative experience and/or an advanced professional degree. Examples of acceptable degrees include MBA, PharmD, PhD, MD, JD, DO, DPT, and APRN.
Healthcare Compliance, Graduate Certificate

Health care compliance is critical to all organization types and persons who work in the health care industry. Whether you are a health care practitioner, administrator, insurer or in a business that contracts with health care organizations, it is vital to understand the need for and function of a robust corporate compliance program.

Learning outcomes in this certificate program address the fundamentals of health care compliance, such as compliance administration, policies and procedures, oversight and committees, enforcement and reporting requirements, screening of employees and vendors, billing and coding basics, auditing and monitoring, education and training, investigations, fraud and abuse laws, and HIPAA. Students who excel in the five-course certificate program at UWM are prepared to sit for the Certification in Healthcare Compliance (CHC) exam offered by CCB. A CHC designation is widely valued in the healthcare compliance community.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

CCB accreditation requires students to have a baccalaureate degree prior to taking the CHC or equivalent exam. Students who complete the certificate in conjunction with the MHA degree program must meet MHA admission requirements. Post baccalaureate applicants to the Healthcare Compliance Certificate program must have at least a bachelor’s degree from an accredited institution and a stated interest in working in healthcare compliance. Minimum 2.75 cumulative GPA in bachelor’s degree program.

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

The UWM Compliance Certificate Program courses are offered online and on campus. Courses that qualify for the 15-credit program include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 801</td>
<td>Design of Health and Human Service Systems</td>
<td>3</td>
</tr>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HCA 821</td>
<td>Operations Management in Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 822</td>
<td>Human Resources Management for Healthcare Executives</td>
<td>3</td>
</tr>
<tr>
<td>HCA 823</td>
<td>Strategic Planning in Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 865</td>
<td>Financial Management for Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 866</td>
<td>Leading Change &amp; Innovation in a System</td>
<td>3</td>
</tr>
<tr>
<td>HCA 867</td>
<td>Leading Strategic Innovation in a Competitive Global Market</td>
<td>3</td>
</tr>
<tr>
<td>HCA 813</td>
<td>Health Regulatory Policy and Politics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 722</td>
<td>Legal, Ethical and Social Issues in Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 743</td>
<td>Predictive Analytics in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HCA 835</td>
<td>Patient-Provider Communication: Strategies &amp; Practices</td>
<td>3</td>
</tr>
</tbody>
</table>
Health Professional Education, Graduate Certificate (College of Health Sciences)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s, or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences and Schools of Nursing and Education, and is coordinated through the College of Nursing.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor’s degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

Credits and Courses
The completion of 15 credit hours (5 courses) is required for the certificate program.

There is no capstone course or internship requirement for the certificate program, but students are required to interview a healthcare compliance officer as part of their Healthcare Compliance course and write a reflection on the interview. Degree seeking (MHA) students are encouraged to apply for a summer internship in a healthcare compliance role. Available internships are posted through the Health Care Compliance Association website at https://www.hcca-info.org/CareerCenter/Internships.aspx.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

| HCA 821 | Operations Management in Healthcare Organizations | 3 |
| HCA 868 | Health Law and Ethics | 3 |
| HCA 869 | Health Care Compliance | 3 |
| HCA 813 | Health Regulatory Policy and Politics | 3 |

Total Credits 15
**Code**

**Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
</tbody>
</table>

**Curriculum/Program Planning & Evaluation Courses** 3

Select one of the following:

- AD LDSP 667 Program Planning in Adult Education
- AD LDSP 607 Coordination of Staff Development and Training Program
- AD LDSP 647 Evaluation of Adult, Continuing, and Higher Education Programs
- NURS 752 Curriculum Development in Nursing Education

**Teaching/Instructional Strategies** 3

Select one of the following:

- AD LDSP 687 Instructional Design and Teaching Strategies
- AD LDSP 707 Using Technology With Adult Learners
- AD LDSP 827 Seminar in Adult and Organizational Learning
- NURS 705 Instructional Strategies for Patient Education

**Elective Courses** 3

Select one additional course from the above or from the following:

- AD LDSP 867 Seminar in Continuing Education in the Professions
- AD LDSP 787 Administration of Adult Education Programs
- AD LDSP 547 The Educational Dimensions of Practice with Older Adults
- NURS 764 Changing Health Behaviors
- CURRINS 774 College Teaching
- NURS 751 Teaching in Practice Disciplines

**Total Credits** 18

A current listing of courses that meet these requirements can be obtained from the College of Health Sciences or the College of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Health Sciences**

The Ph.D. in Health Sciences is an interdisciplinary degree program designed to accomplish three major objectives:

1. Provide advanced study and research training opportunities in the human health sciences.
2. Produce cohorts of scholars capable of advancing the discovery, dissemination, and application of new knowledge in the health sciences.
3. Prepare future academic leaders in the health sciences.

**Programs**

- Health Sciences, PhD (p. 623)

**Health Sciences, PhD**

The PhD in Health Sciences curriculum includes a set of core courses providing a comprehensive structure for doctoral education including:

- Philosophical foundations.
- Concepts and practices that contribute to students, development as teaching scholars.
- Research methods.
- A series of seminars that build students, critical thinking skills, familiarity with a range of health sciences research topics, and experience in scholarly dialogue and presentation.
Concentrations and Cross-Disciplinary Courses

In addition to the core courses, the program includes concentration and cross-disciplinary courses in areas such as disability and rehabilitation, diagnostic and biomedical sciences, human movement sciences, population health, and health administration/policy. Independent research and the dissertation will be structured according to the choice of specialization.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

To be considered for admission to the program applicants must satisfy all UWM Graduate School admission requirements in addition to the following College of Health Sciences requirements:

1. Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre), test taken within last five years.

2. One of the following:
   • Master's degree or equivalent in an area that provides foundational academic preparation in proposed Health Sciences PhD Area of Concentration (http://uwm.edu/graduateschool/health-sciences/#cocentration).
   • Bachelor's degree with exceptional promise, as indicated by research experience/evidence of writing or an undergraduate project, recommendations, GRE (http://uwm.edu/graduateschool/admission/#gre) scores, and undergraduate GPA.

3. A sample of the applicant's written work that demonstrates his or her ability to conduct research and/or the ability to critically analyze the scholarly work of others.

4. A letter outlining the applicant's academic and professional background, declaration of Area of Concentration and Major Professor as well as specific research interests and goals for the PhD program. This statement should be submitted to the Graduate School and must be complete and thorough as it provides information that is central to the admission decision. This letter will serve in lieu of the Graduate School's "Reasons for Graduate Study" statement.

5. Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential. At least two of these letters must be from faculty or senior administrators at academic institutions.

For applicants from countries other than the U.S.A. whose first language is not English, a score of at least 250 on the computer-based (or 600 on the paper-based) Test of English as a Foreign Language (TOEFL) is required. A score of 6.5 on the International English Language Testing Systems (IELTS) examination will be accepted in lieu of the TOEFL.

The PhD Steering Committee will make an admission recommendation and forward it to the appropriate College of Health Sciences departmental Graduate Faculty or Executive Committee and identified Major Professor. The final admission decision is contingent upon approval by the departmental Graduate Faculty Committee or Executive Committee, the applicant's Major Professor, and the Graduate School.

Prior to admission an eligible College of Health Sciences Graduate Faculty member must agree to serve as the applicant's major professor.

Reapplication

A student who has received a master's degree in Clinical Laboratory Sciences, Communication Sciences and Disorders, Kinesiology, or Occupational Therapy from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the PhD degree.

Credits and Courses

The Health Sciences PhD program requires you to complete a minimum of 72 credits beyond the Bachelor's degree, including no more than 36 credits from a related master's and/or other post-baccalaureate coursework. Depending on the area of concentration additional credits may be required. Consult with your major professor for the individual program of study requirements. You must complete a minimum of 36 credits, or 50% of the total credits required for the degree, in doctoral status at UWM, including pre-candidacy and candidacy work.

Of the credits taken in residence, you must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, inclusive of summer sessions.

The precise number of credits and actual course requirements will be determined after a review of your previous coursework by your major professor and the Program Director. You will then plan an individual program of study in consultation with your major professor and doctoral advisory committee that will include a set of core courses, an area of concentration, cross-disciplinary courses, electives, and the dissertation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research/Grantsmanship</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select a minimum of 3 credits from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar:</td>
<td></td>
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<tr>
<td>MCW 20253A</td>
<td>Methods in Grant Preparation</td>
<td></td>
</tr>
<tr>
<td>PH 808</td>
<td>Writing a Federal Grant in the Public</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Health Sciences</td>
<td></td>
</tr>
<tr>
<td>PSYCH 620</td>
<td>Single-Subject Research Methods</td>
<td></td>
</tr>
<tr>
<td>BMS 718</td>
<td>Experimental Design and Research in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biomedical Sciences</td>
<td></td>
</tr>
<tr>
<td>PSYCH 610</td>
<td>Experimental Design</td>
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<tr>
<td>PH 827</td>
<td>Research Design in Community and</td>
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</tr>
<tr>
<td></td>
<td>Behavioral Health Promotion</td>
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</tr>
<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
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</tr>
</tbody>
</table>

Teaching |                                             | 3 |
| Select a minimum of 3 credits from the following: | | |
| GRAD 801  | Preparing Future Faculty & Professionals:   |         |
| CURRINS 774 | College Teaching                        |         |
| KIN 909   | Guided Teaching Experience in Health      |         |
|           | Sciences                                 |         |
CETL workshops in combination with guided teaching. CETL workshops may count as 1 credit under independent study or guided teaching.

Statistics

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
</tr>
<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
</tr>
<tr>
<td>HCA 743</td>
<td>Predictive Analytics in Healthcare</td>
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<td>NURS 882</td>
<td>Qualitative Methods in Health Research</td>
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<td>NURS 885</td>
<td>Advanced Quantitative Methods in Health Research</td>
</tr>
<tr>
<td>NURS 886</td>
<td>Advanced Qualitative Methods in Health Research</td>
</tr>
<tr>
<td>ED PSY 825</td>
<td>Multivariate Methods</td>
</tr>
<tr>
<td>SOC WRK 963</td>
<td>Measurement Methods and Related Multivariate Statistics</td>
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Seminar

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<tr>
<td>KIN 910</td>
<td>Advanced Seminar in Health Sciences (counts as duplicate of BMS 910)</td>
</tr>
<tr>
<td>BMS 910</td>
<td>Advanced Seminar in Health Sciences (counts as duplicate of KIN 910)</td>
</tr>
<tr>
<td>GRAD 801</td>
<td>Preparing Future Faculty &amp; Professionals:</td>
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<td>SOC WRK 991</td>
<td>Doctoral Proseminar:</td>
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<tr>
<td>BIO SCI 925</td>
<td>Graduate Seminar in Biological Sciences</td>
</tr>
<tr>
<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
</tr>
<tr>
<td>BIO SCI 933</td>
<td>Seminar in Neuroscience</td>
</tr>
</tbody>
</table>

Area of Concentration

| Minimum of 9 credits: Courses related to the area of concentration will require you to draw upon the strengths and expertise of the faculty and curriculum in an interdisciplinary and collaborative manner. |

Cross Disciplinary Requirement

| Minimum of 6 credits: Cross-disciplinary courses are courses in areas outside of your area of concentration but related to your cross-disciplinary focus. |

Electives

| Minimum of 12 credits: The last component of the degree requirements, independent research and dissertation, will be structured by your area of concentration. Your dissertation is to consist of focused, independent research that contributes to the existing body of scientific knowledge. Per the UWM Graduate School policy, exactly 3 dissertation credits may be taken in a given semester. Thus, a minimum of 4 semesters of dissertation work is recommended. |

| Note: Students would need prior approval from their Major Professor and Program Director for any courses not listed. For some core courses, the course number will change depending upon the department through which the course is offered during a particular semester. |

Additional Requirements

Residence

The student must complete at least half of the graduate credits required for the PhD in residence at UWM in doctoral status. In addition, the student must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. In exceptional cases, modifications of the residence requirement may be requested, subject to the approval of the College of Health Sciences PhD Steering Committee and the Graduate School.

Foreign Language

Foreign language coursework is optional, depending upon the recommendation of the student's Major Professor.

Doctoral Committee

In consultation with the Major Professor, each student is responsible for selecting a Doctoral Committee before completing 12 credits in the doctoral program. The doctoral committee shall consist of the student’s major professor and four other graduate faculty: three of these must be at UWM, including at least two from CHS. The other member may be from another institution, subject to the approval of the student's program executive committee. Upon formation of the Doctoral Committee, the student must file a “Doctoral Committee” form with his/her major professor which is to be subsequently filed with the CHS – PhD Steering Committee.

Doctoral Preliminary Examinations

The doctoral preliminary examinations must be completed within three years of initial enrollment in the program. Students may receive up to two additional semesters to complete the preliminary examinations with approval of the CHS – PhD Steering Committee. The examinations consist of a written examination designed to demonstrate the breadth of a student’s knowledge and the ability to conduct advanced research, and an oral exam covering issues raised during the written exam and/or focusing on the proposed dissertation research. The oral exam must follow the written exam within 10 days. Students take the preliminary examinations after completing all doctoral coursework or with no more than three credits of doctoral coursework remaining. Students cannot take the examinations if they have any incomplete or unreported grades or a GPA lower than 3.0. Students who fail the preliminary examinations may not proceed to the dissertation. The examinations may be retaken only once.

Dissertation Proposal

Upon successful completion of the preliminary examinations, the student submits a written dissertation proposal and delivers an oral presentation of the proposed research to the Dissertation Committee. The proposal takes the form of a scholarly document outlining the problem, its background and significance, summarizing relevant literature, and outlining the proposed research methods. It should include a tentative timetable and outline any required resources (space, equipment, etc.). Members of the student’s Dissertation Committee must approve the dissertation proposal. Acceptance of the dissertation proposal establishes an agreement between the student and the Dissertation Committee as to the nature and scope of the research to be conducted,
and the procedure for completing the dissertation. Upon Dissertation Committee approval, research proposals that use animal or human subjects must receive approval from the Animal Care and Use Committee or the Institutional Review Board.

**Dissertator Status**

Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.

**Dissertation**

The dissertation is a major piece of original research representing a substantial contribution to the existing body of knowledge. The original research findings embodied in the dissertation should be acceptable for publication in a refereed journal. The student’s Major Professor and Dissertation Committee provide guidance in completing the dissertation.

**Dissertation Defense**

Once the dissertation document meets with Dissertation Committee approval, an oral defense takes place. At the time of the defense, the dissertation must be of publication-quality (as judged by the Dissertation Committee). The dissertation defense will be held in an open forum after which the Dissertation Committee will meet in closed session to make a decision on degree conferment. The time and place of the public presentation must be announced with adequate time (i.e., at least one week prior to the defense) so that faculty and students may attend.

**Time Limit**

The student must complete all requirements for the degree within seven years of the date of initial enrollment in the program. Upon successfully passing the preliminary examinations, the student must complete all requirements for the degree within four years.

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**Interprofessional Public and Population Health, Graduate Certificate (College of Health Sciences)**

The Interprofessional Public and Population Health Graduate Certificate is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences, College of Nursing, and the Zilber School of Public Health, and is coordinated through the Zilber School of Public Health with administrative support from the College of Nursing.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Credits and Courses**

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (all are 3 credits unless noted):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
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</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td>3</td>
</tr>
<tr>
<td>KIN 556</td>
<td>Multilevel Approaches to Changing Physical Activity and Eating Behaviors or KIN 732</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Activity and Health Across the Lifespan</td>
<td></td>
</tr>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
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<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
<td>1</td>
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<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in a degree. (Note: Students in PhD programs must still complete the degree.)

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Kinesiology

Kinesiology

What is Kinesiology? “Kinesiology is an academic discipline that involves the study of physical activity and its impact on health, society, and quality of life.” – American Kinesiology Association

Students majoring in kinesiology study the social, behavioral, mechanical, and physiological principles of human movement. Kinesiology students are the future health and fitness providers who use preventative and rehabilitative intervention techniques in commercial health/fitness clubs, community fitness centers, corporate/industrial fitness facilities, and clinical agencies with specialization in cardiac/pulmonary rehabilitation.

Two tracks are available to Kinesiology students: Exercise Science and Health Promotion.

The Kinesiology major with the Exercise Science track can be tailored to prepare individuals seeking specialized future careers in the allied health/movement science fields, such as physical therapy, exercise physiology, or chiropractic care, as well as the medical field in areas such as nursing, physician assistant, or traditional medicine. Typically, these types of careers in Kinesiology require post baccalaureate and continuing education for practice and the Exercise Science track provides flexibility to include required coursework.

Kinesiology majors wishing to gain hands-on skills and practice in applying the science of kinesiology in real world settings can select the Health Promotion track. Students in the Health Promotion track complete an internship in their final semester and are well-positioned to either continue their education in graduate Kinesiology or related programs or move into the workforce.

Both tracks allows students the flexibility to complete a minor or certificate to complement students’ particular interests. For instance, the student could acquire a business minor in preparation for entering the job market at a supervisory/administrative level, which should provide a fast track to management within health and fitness facilities, community fitness centers, and with entrepreneurial ventures.

Athletic Training

Certified athletic trainers are healthcare professionals who specialize in preventing, recognizing, managing, and rehabilitating injuries in physically active individuals. As part of a complete healthcare team, the certified athletic trainer works under the direction of a licensed physician and in cooperation with other healthcare professionals, athletics administrators, coaches, and parents.

Master of Science in Athletic Training (MS-AT)
To continue our leadership in Athletic Training education, we are revising our program to reflect the changed nature of professional practice demanding more interprofessional collaboration, a higher degree of autonomy requiring advanced development of clinical reasoning skills, and a skill set in evidence-based practice that allows graduates to actively engage in the rapidly changing science surrounding healthcare practice. Therefore, we have established a graduate, professional education program where students would earn a Master of Science in Athletic Training. The program was implemented during the 2015-2016 academic year, with the first students beginning the program for the summer session of 2017. Please refer to the program website for additional information and updates (www.atep.uwm.edu (http://www.atep.uwm.edu/)).

Nutritional Sciences

The Nutritional Sciences (NUTR) program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. The curriculum provides a varied foundation in research, education, industry, and government and serves as an excellent pre-professional major for students planning a career in health fields such as physical therapy, medicine, pharmacy, or dentistry. The NUTR curriculum also offers an ideal preparation for advanced graduate training in nutrition, biochemistry, molecular biology, public health, and related disciplines.

Programs

Undergraduate Degrees
- Kinesiology, BS (p. 632)
- Nutritional Sciences, BS (Department of Kinesiology) (p. 639)
Undergraduate Minors
- Kinesiology, Minor (p. 635)
- Nutritional Sciences, Minor (Department of Kinesiology) (p. 640)

Undergraduate Certificates
- Complementary and Integrative Health Approaches, Undergraduate Certificate (p. 631)
- Healthy Aging, Undergraduate Certificate (p. 632)

Graduate Degrees
- Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology) (p. 629)
- Athletic Training, MS (p. 630)

Requirements for Employment, Licensing, or Professional Organizations
Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Carlynn Alt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Marquette University</td>
<td></td>
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<tr>
<td>Monna Arvinen-Barrow</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Northampton, United Kingdom</td>
<td></td>
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</tr>
<tr>
<td>Timothy K. Behrens</td>
<td>Dean and Professor</td>
<td>PhD</td>
<td>University of Oklahoma</td>
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<tr>
<td>Susan Cashin</td>
<td>Clinical Professor</td>
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<td>Southern Illinois University</td>
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<td>Stephan Cobb</td>
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<td>PhD</td>
<td>Georgia State University</td>
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<tr>
<td>Ann Dietrich</td>
<td>Clinical Associate Professor</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Margaret Duncan</td>
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<tr>
<td>Jennifer Earl-Boehm</td>
<td>Associate Professor</td>
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<td>The Pennsylvania State University</td>
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<tr>
<td>Kyle Ebersole</td>
<td>Associate Professor</td>
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<td>University of Nebraska</td>
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<tr>
<td>Chukuka Enwemeka</td>
<td>Distinguished Professor, Dean</td>
<td>PhD</td>
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<tr>
<td>Hayley Ericksen</td>
<td>Clinical Assistant Professor</td>
<td>PhD, ATC</td>
<td>University of Toledo</td>
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<tr>
<td>Christy Greenleaf</td>
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<td>University of North Carolina-Greensboro</td>
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<tr>
<td>William Gregory</td>
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<tr>
<td>Barbara Hart</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Cynthia Hasbrook</td>
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<tr>
<td>Wendy Huddleston</td>
<td>Associate Professor</td>
<td>PhD, PT, OCS</td>
<td>Medical College of Wisconsin</td>
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<tr>
<td>Kevin Keenan</td>
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<tr>
<td>Lori Klos</td>
<td>Associate Professor</td>
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<td>Cornell University</td>
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<tr>
<td>Susan Kundrat</td>
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<td>MS</td>
<td>Iowa State University</td>
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<tr>
<td>Renee Mazurek</td>
<td>Clinical Assistant Professor</td>
<td>PT, DPT</td>
<td>Arizona School of Health Sciences, A.T. Still University</td>
<td></td>
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<tr>
<td>Barbara Meyer</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
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<tr>
<td>Victoria Moerchen</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Kristian O'Connor</td>
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<tr>
<td>Renee Reckelberg</td>
<td>Athletic Trainer I</td>
<td>Unlisted</td>
<td>Eastern Michigan University</td>
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<tr>
<td>Erika Sander</td>
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<tr>
<td>Ann Snyder</td>
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<tr>
<td>Scott Strath</td>
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<tr>
<td>Ann Swartz</td>
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<td>Carrie Truebenbach</td>
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<tr>
<td>Jinsung Wang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
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</tbody>
</table>
Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology)

The Graduate Certificate in Applied Gerontology is an interdisciplinary program designed to provide students with the knowledge and skills they need to successfully pursue careers within aging services organizations, or to conduct academic research in the field of aging. The program focuses on the biological, psychological, social, and policy aspects of aging, and encourages students to link practice and research in order to improve the quality of life of older adults. The GCAG is intended for graduate degree-seeking students in any field, and for degreed professionals looking to advance or refocus their careers. Please contact Jennifer Kahn-Pettigrew, Coordinator for Education and Programming, at 414-229-6888 or kahnpet2@uwm.edu for more information.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Students wishing to earn a Graduate Certificate in Applied Gerontology must complete 18 graduate credit hours. No student may complete all 18 credits within a single school or college.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
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</tr>
<tr>
<td>NURS 760</td>
<td>Processes of Aging</td>
<td>3</td>
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<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis: (with the subtitle &quot;Age and Community: Policy to Practice&quot;)</td>
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<tr>
<td>Choice Core</td>
<td>Select two of the following:</td>
<td>6</td>
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</table>

<table>
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<tr>
<th>Electives</th>
<th>Select 6 credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td>AD LDSP 547</td>
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<tr>
<td>Psychology of Aging</td>
<td>PSYCH 680</td>
<td></td>
</tr>
<tr>
<td>Social Gerontology</td>
<td>SOC WRK 685</td>
<td></td>
</tr>
<tr>
<td>Current Topics in Social Work: (Death and Dying – Aging section only)</td>
<td>SOC WRK 791</td>
<td></td>
</tr>
<tr>
<td>Independent Study: (Creativity in Health Settings (3 credits)</td>
<td>THEATRE 699</td>
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</tbody>
</table>

1. Students will work with the Certificate Coordinator to approve the selection 6 credits from the remaining Choice Core classes and additional electives, including a “Practicum” in the student’s home department or area of choice.

Integrative Portfolio
Students must complete an Integrative Portfolio as a final project under the guidance of the Certificate Coordinator and an assigned advisor. This Portfolio includes papers/materials from core courses and an introduction and reflective conclusion that integrates the key concepts from the interdisciplinary coursework and identifies potential impact on their future practice in research or aging services.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in a degree.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Athletic Training, MS**

Athletic trainers are health care professionals who provide physically active people services such as injury/illness prevention, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic trainers care for people across the lifespan and activity levels, including youth to professional athletes, performing artists, military or civil service personnel, and workers in physically demanding jobs. To become an athletic trainer you must complete a graduate degree in Athletic Training in a program accredited by the Commission on Accreditation of Athletic Training Education (https://caate.net/) (CAAATE). The UWM Master of Science in Athletic Training (https://uwm.edu/healthsciences/academics/masters-athletic-training/) (MSAT) is such a program. Upon completion of the degree you must pass the national Board of Certification exam (https://www.bocatc.org/), and then you can start working as an athletic trainer.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

The program seeks to admit highly qualified students until the class has been filled (approximately 12 students per year). The early decision deadline is November 1. After that date a rolling admission process is used until the class is filled. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Completion of a Bachelor's degree from an accredited institution with an overall cumulative grade point average (GPA) of 3.0 (on a 4.0 scale) at the time application submission and graduation. Official transcripts must be submitted. Undergraduate degree must be completed by the time the applicant plans to begin in the MSAT program.
2. Completion of the following 10 foundation courses. A prerequisite GPA of 3.0 (on a 4.0 scale) is recommended:
   a. Human anatomy with lab
   b. Human physiology with lab
   c. Introduction to biology
   d. Introduction to psychology
   e. Statistics
   f. Chemistry with lab
   g. Physics with lab
   h. Exercise physiology
   i. Biomechanics
   j. Introduction to nutrition
3. Completion of 20 hours of observation of athletic training practice with a certified athletic trainer within 12 months of application submission.
4. Two letters of recommendation: one from an academic reference, one from an athletic trainer with whom the applicant completed observation hours.
5. GRE scores are optional if the cumulative GPA is >3.0. The Graduate School requires GRE scores when the cumulative GPA is below 3.0.

**Prospective Students**

Prospective applicants who have questions about pursuing athletic training are encouraged to contact the program via email at msat-info@uwm.edu. Students can also contact the Pre-Athletic Training advisor in the College of Health Sciences Office of Student Affairs. Prospective applicants are encouraged to carefully review the entirety of this website prior to scheduling an advising appointment.

**Need to complete prerequisite courses?**

Prospective applicants who have already completed a bachelor's degree and are interested in taking courses at UWM to satisfy MSAT program prerequisites should contact the BS Kinesiology/MS Athletic Training advisor Torry Rufer (https://uwm.edu/healthsciences/directory/rufer-torry/) at 414-229-2758 or tjrufer@uwm.edu.

You will also need to apply for admission to UWM (http://graduateschool-apply.uwm.edu/). On the application, applicants should identify their reason for applying as "Undergraduate courses as a visitor/guest student" and their "applying as" status as "Undergraduate non-degree student with a bachelor's degree." Applicants should apply as a second-degree student only if they plan to complete a second bachelor's degree. Questions regarding financial aid for non-degree students should be directed to Gayla Jenkins (jenkinsg@uwm.edu) in the UWM Department of Financial Aid.

**Curriculum Overview**

The MS Athletic Training provides students with a structured, tracked curriculum that contains coursework as well as community-engaged opportunities for clinical education, research, and professional development. Philosophies of evidence-based practice, integrated person-centered care, cultural competence, and clinical problem solving will be incorporated into all courses within the curriculum. There are several courses that are taught interprofessionally, where students from multiple healthcare professions learn about, from and with each other.

The curriculum meets all of the competencies and requirements set forth by the Commission on the Accreditation of Athletic Training Education. At the completion of the program, students will be eligible to sit for the national certification exam, administered by the Board of Certification, and enter the healthcare workforce.

**Clinical Education**

Clinical education experiences provide the student with the opportunity to practice and refine their clinical and decision-making skills in the context of direct patient care under the supervision of a licensed athletic trainer or physician. Students commit an average of 12 hours per week to clinical education. Students will begin the clinical education placements during their first semester and will continue these for each semester of the program. The final two semesters will include a capstone clinical education placement. Clinical placements are guided by concurrent coursework, type of practice setting (i.e., collegiate, high school, clinical,
professional sports, industrial), injury risk level, and sociodemographic factors (i.e., gender, age, urban/suburban/rural). All clinical education experiences will be strategically mapped to ensure that each student is exposed to as many of the above factors as possible.

**Credits and Courses**
This is a 71-credit, two-year program conducted on a 12-month calendar. Students will matriculate at the start of the Summer term, and take courses for the following Fall, Spring, Summer, Fall, and Spring. Graduation will occur at the end of the Spring term.

**Code** | **Title** | **Credits**
---|---|---
PRPP 521 | Pathoetiology of Tissue Injury | 3
PRPP 701 | Introduction to Clinical Education and Professional Development | 1
PRPP 702 | Ethics in Healthcare | 1
PRPP 703 | Foundations of Interprofessional Practice | 1
PRPP 704 | Professionalism and Leadership in Healthcare | 1
PRPP 705 | Foundations of Clinical Research | 3
PRPP 708 | Clinical Gait Analysis | 3
PRPP 710 | Prevention & Care of Emergent Medical Conditions in Athletic Training | 4
PRPP 725 | Gross Anatomical Kinesiology | 3
PRPP 744 | Healthcare Systems and Administration | 3
PRPP 747 | Clinical Exam and Diagnosis of the Lower Extremity in Athletic Training | 3
PRPP 748 | Clinical Exam and Diagnosis of the Head and Spine in Athletic Training | 3
PRPP 749 | Clinical Exam and Diagnosis of Upper Extremity in Athletic Training | 3
PRPP 753 | Medical Physiology II | 3
PRPP 757 | Foundations of Therapeutic Interventions in Athletic Training | 3
PRPP 758 | Physical Agents | 2
PRPP 759 | Therapeutic Interventions for the Upper Extremity | 2
PRPP 785 | Clinical Education in Athletic Training: I | 1
PRPP 786 | Clinical Education in Athletic Training: II | 2
PRPP 787 | Clinical Education in Athletic Training: III | 2
PRPP 788 | Clinical Education in Athletic Training: IV | 3

Select the following for 4-8 credits per semester to equal 12 credits: 12

**Kinesiology Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 550</td>
<td>Psychological Aspects of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 551</td>
<td>Psychology of Injury, Prevention, Rehabilitation &amp; Return to Participation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 3 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

**Additional Requirements**

**Major Professor as Advisor**
The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned a faculty advisor upon acceptance to the program.

**Time Limit**
The student must complete all degree requirements within seven years of initial enrollment.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).

**Contact Information**
Pavilion, Suite 350
Phone: 414-229-3360
msat-info@uwm.edu

**Complementary and Integrative Health Approaches, Undergraduate Certificate**

Complementary and Integrative Health Approaches (CIH) are important components of the American health care system and supports a focus on health and wellness. The CIH approaches advocate for care that is patient-centered, healing oriented, emphasize the therapeutic relationship, and use therapeutic approaches originating from conventional and alternative medicine. Health and wellness, mind and body, and natural products are key areas of focus within this area of study. Health care professionals and future health care professionals, wellness and fitness oriented professionals and students, and interested individuals benefit from competency in understanding and critically evaluating the various practices considered as complementary and alternative or integrative.

The focus of this certificate program is an educational foundation regarding the broad use of complementary and integrative practices. Through coursework, learners explore and evaluate the most common forms of CIH, the history and cultural applications of CIH practices, evidence-based and ethical use of CIH, and the critical evaluation of CIH information and research. Completion provides basic scientific knowledge and skills to critically evaluate the current and future use of integrative health care.

**Note:** Students must declare their intent to pursue this academic certificate. Professional advisors provide information and guidance to help students make informed educational decisions. Students are encouraged to meet with an advisor at least once each semester. To schedule an advising appointment, call the Office of Student Affairs appointment line at (414) 229-2758.

**Requirements**
To earn the academic certificate, a minimum GPA of 2.5 is required in the 15 credits.
Healthy Aging, Undergraduate Certificate

The Undergraduate Certificate in Healthy Aging is an interdisciplinary program housed in the Center for Aging and Translational Research. The certificate is designed for students:

1. To acquire basic foundational knowledge in the processes of aging, issues regarding aging, and the challenges of older adulthood.
2. To understand the interdisciplinary and integrative nature of gerontology.
3. To have practical experiences with older adults.

The certificate is open to all undergraduate students as well as non-degree seeking students with a bachelor's degree. Undergraduate students may earn the certificate in conjunction with any major. Those with a bachelor's degree may choose to complete the program to enhance their job performance or increase their marketability in the field of aging. Certificate completion will be posted on a student's official transcript and an official paper certificate will be sent to the student.

Requirements

The student must maintain a 2.5 GPA for the 18 credits that meet certificate requirements.

The program consists of 18 credits including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches 1</td>
<td>3</td>
</tr>
<tr>
<td>KIN 365</td>
<td>Health Aspects of Mind and Body Practices</td>
<td>3</td>
</tr>
<tr>
<td>KIN 368</td>
<td>Intervention Strategies in Complementary and Integrative Health Approaches 1</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 credits (see below) 3

Total Credits 15

1 Online offering available.

Electives

Select 6 credits in aging-related courses 2

Select 3 credits in a course working primarily with older adults or caregivers 3

Total Credits 18

1 No more than three credits can be taken in one area. See the program coordinator for a current list.
2 Select courses after consulting with the academic advisor for their program and the certificate coordinator. A maximum of 3 credits of approved independent study may be counted as an elective.

For additional information, contact the program coordinator in the Center for Aging and Translational Research, catr@uwm.edu, (414) 229-7313.

Kinesiology, BS

Are you fascinated by the science of human movement? Then a major in Kinesiology might be for you. You’ll join an exciting department where nationally known faculty are working to deepen our understanding of physical activity. You’ll delve into topics such as anatomy and physiology, biomechanics, psychosocial aspects of sport/exercise, motor
development and more. You’ll graduate ready to apply your knowledge and skills in professional settings ranging from health care to sports to industry.

Curious about Kinesiology, "the science that moves us"? We offer two introductory courses that students can take to learn more about Kinesiology.

• KIN 200: Introduction to Kinesiology. In KIN 200, you will explore the science of human movement through different lenses. For example, you will study popular exercise/fitness trends, such as CrossFit, and explore the physiological, biomechanical, psychological, sociological, and motor behavior aspects of the trend. KIN 200 is an exciting course in which you will learn important scientific principles and research underlying the field of kinesiology.

• KIN 230: Health Aspects of Exercise and Nutrition (NS GER). KIN 230 introduces you to key concepts related to personal physical fitness and healthy eating. If you are interested in learning about and improving your own fitness and eating behaviors, this is a great class to take. *KIN 230 is an online course.

Interested in Physical Therapy or Athletic Training? If you are interested in pursuing a career in Physical Therapy or Athletic Training, the Kinesiology major is a great choice as you will learn the scientific foundations of human movement and be well-prepared for admission into a professional program. Academic advisors (https://uw.edu/healthsciences/advising/) in the College of Health Sciences can help you put together a plan of study so that you complete the prerequisites for admission into the UWM Doctor of Physical Therapy (https://uw.edu/healthsciences/academics/doctoral-physical-therapy/) (DPT) or Master of Science in Athletic Training (https://uw.edu/healthsciences/academics/masters-athletic-training/) (MSAT) programs. As a Kinesiology major, you can select a pre-physical therapy or pre-athletic training designation.

Undergraduate students may opt to take advantage of the UWM Accelerated BS Kinesiology / MS Athletic Training program (https://uw.edu/healthsciences/academics/accelerated-bachelors-kinesiology-masters-athletic-training/). This program is for high performing students and entails completing three years as a Kinesiology undergraduate student and then moving into the MSAT program as a graduate student. At the end of the fourth year (the first in the MSAT program), the BS Kinesiology degree is conferred. Upon successful completion of years four and five, students earn the MS in Athletic Training.

Requirements

Requirements for the BS Kinesiology program can be found on the BS Kinesiology webpage (http://uw.edu/healthsciences/academics/bachelors-kinesiology/).

Note: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQ Building B, 6th Floor, 414-229-2758, for the most current information.

Course of Study

The undergraduate program in the Department of Kinesiology is a four-year curriculum leading to a Bachelor of Science degree in Kinesiology. The program has two tracks, Health Promotion and Exercise Science. Both tracks consist of foundational studies, lab classes, and professional preparation leading to the completion of 120 credits for the Bachelor of Science degree.

Admission

In order to move on to the Kinesiology Core courses, the following admission criteria must be met:

1. 2.0 cumulative GPA;
2. Minimum grade of C in the following foundations courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td>4</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Completion of UWM's General Education Requirements (p. 29); and
4. Completion of online application for admission to the Kinesiology major.

Eligibility

Students interested in Kinesiology will remain eligible for continuation in the degree by:

1. Completion of UWM's General Education Requirements (p. 29) (students are encouraged to use CHS courses when appropriate);
2. Maintenance of a UWM cumulative grade point average over 2.0;
3. Completion of the Kinesiology Foundation Courses with a grade of C or better. Students may not repeat more than four (4) of the Kinesiology Foundation Courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Spt&amp;Rec 110-192</td>
<td>Physical Activity Requirement</td>
<td></td>
</tr>
<tr>
<td>Spt&amp;Rec 292-298</td>
<td>Physical Activity Requirement</td>
<td></td>
</tr>
</tbody>
</table>
When the criteria are met and application accepted, the student will be admitted to the Kinesiology program.

**Note:** Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQB 6425, (414) 229-2758, for the most current information.

**Retention**

Retention in the program and graduation are dependent upon:

1. Maintenance of a 2.0 cumulative UWM GPA.
2. Completion of all courses in one of the following track curriculum with an average GPA of 2.0 in the Kinesiology Core. Students may not repeat more than three (3) of the Kinesiology Core courses.
3. Earn minimum of C- in all Kinesiology Core courses.
4. Completion of all required courses, correlates/internship, and elective credits (120 minimum degree credits).

**Degree Requirements**

Kinesiology students are required to complete the (a) University Core, (b) Kinesiology Core, and (c) Health Promotion or Exercise Science track requirements. The Health Promotion requirements include completion of the Professional Skills Development coursework and Internship. The Exercise Science track includes completion of Correlate Coursework. Students in both tracks also must complete elective coursework to fulfill the 120 credit requirement for the BS Kinesiology degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 300</td>
<td>Professional Preparation Seminar</td>
<td>1</td>
</tr>
<tr>
<td>KIN 320</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 330</td>
<td>Exercise Physiology</td>
<td>4</td>
</tr>
<tr>
<td>KIN 350</td>
<td>Psychological Aspects of Sport and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KIN 351</td>
<td>Sociological Aspects of Health and Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 360</td>
<td>Motor Development Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>KIN 361</td>
<td>Principles of Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
<td>3</td>
</tr>
</tbody>
</table>

Kinesiology Core GPA: 2.0

**Tracks**

In addition to the Kinesiology core requirements listed above, students will choose one (1) of the following tracks to follow:

**Exercise Science Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Correlate Coursework Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits from KIN 300-599</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits from KIN 500-599</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 12 credits from approved list</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

**Health Promotion Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Professional Skill Development Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>KIN 301</td>
<td>Field Experience in Kinesiology - I</td>
<td>1</td>
</tr>
<tr>
<td>KIN 302</td>
<td>Field Experience in Kinesiology - II</td>
<td>1</td>
</tr>
<tr>
<td>KIN 303</td>
<td>Field Experience in Kinesiology - III</td>
<td>1</td>
</tr>
<tr>
<td>KIN 325</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 336</td>
<td>Principles of Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KIN 430</td>
<td>Exercise Testing for Fitness Assessment</td>
<td>3</td>
</tr>
<tr>
<td>KIN 480</td>
<td>Organization and Administration in the Exercise and Fitness Industry</td>
<td>3</td>
</tr>
<tr>
<td>KIN 481</td>
<td>Program Development and Evaluation in the Exercise and Fitness Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 18

**Internship (Health Promotion track only)**

Internship must be completed in the last semester and is 12 credits. Advanced preparation is required for internship and students should be in contact with the internship coordinator as soon as possible. See the BS Kinesiology webpage (http://uwm.edu/healthsciences/academics/bachelors-kinesiology/) for additional information regarding internship.

**Internship Eligibility**

The following requirements must be met before enrolling in KIN 489:

1. Completion of all other curriculum requirements;
2. A 2.5 or greater cumulative GPA;
3. A 2.75 or greater cumulative GPA for all Kinesiology Core requirements:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>KIN 300</td>
<td>Professional Preparation Seminar</td>
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<tr>
<td>KIN 330</td>
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</tr>
<tr>
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<td>3</td>
</tr>
<tr>
<td>KIN 351</td>
<td>Sociological Aspects of Health and Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 360</td>
<td>Motor Development Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>KIN 361</td>
<td>Principles of Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
<td>3</td>
</tr>
</tbody>
</table>
Kinesiology, Minor

The Minor in Kinesiology affords students opportunities to study the multidisciplinary science of human movement.

Students who complete the Minor in Kinesiology will be able to:

1. Describe, from a multidisciplinary approach, the value and benefits of all forms of physical activity and a healthy lifestyle; and
2. Summarize and apply theoretical and scientific knowledge from multiple Kinesiology sub disciplines such as: biomechanics, exercise physiology, motor behavior, sociological and psychological aspects of physical activity, health, and sport.

Requirements

To declare the Minor in Kinesiology, students must:

1. Have completed a minimum of 24 credits;
2. Have a minimum UWM GPA of 2.0; and
3. Complete the online declaration form.

The Minor in Kinesiology involves completing 18 credits of kinesiology coursework. Students must:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 200</td>
<td>Introduction to Kinesiology</td>
<td>12</td>
</tr>
<tr>
<td>KIN 230</td>
<td>Health Aspects of Exercise and Nutrition</td>
<td></td>
</tr>
<tr>
<td>KIN 320</td>
<td>Biomechanics</td>
<td></td>
</tr>
<tr>
<td>KIN 330</td>
<td>Exercise Physiology</td>
<td></td>
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<td>KIN 360</td>
<td>Motor Development Across the Lifespan</td>
<td></td>
</tr>
<tr>
<td>KIN 361</td>
<td>Principles of Motor Learning</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 additional Kinesiology credits level 300 or above

| Total Credits | 18 |

1. Declaration of minor is a prerequisite for each of these courses.

To be awarded the Minor in Kinesiology, students will need to earn a minimum GPA of 2.0 in the 18 credits in the Kinesiology minor. Students must earn a minimum of C- in Kinesiology minor coursework. Students must satisfy published prerequisites of any course.

Academic advisors within the College of Health Science Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at 414-229-2758.

Kinesiology, MS

“Kinesiology is an academic discipline which involves the study of physical activity and its impact on health, society, and quality of life.” — American Kinesiology Association

The Master of Science degree in Kinesiology provides students with an understanding of how physical activity (including sport and exercise)
impact and are affected by various physiological, mechanical, and psychosocial aspects of human health and performance.

The degree offers focused study in Exercise and Nutrition in Health and Disease, Integrative Human Performance, or Neuromechanics and prepares students for careers in higher-education, research, and practice through didactic coursework in the areas of Biomechanics, Exercise Physiology, Motor Behavior, Rehabilitation, Sport & Exercise Psychology, and Psychosocial Aspects of Health Behavior.

Knowledge and skills in research-related and discipline-specific coursework helps prepare students to address complex real-world health and performance issues and utilize critical thinking skills to generate knowledge and make sound decisions to support continued personal and professional development.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**

An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) plus these departmental requirements to be considered for admission to the program:

1. A bachelor's degree in kinesiology, biology, nursing, occupational therapy, physical education, psychology, sociology, physical therapy, zoology or equivalent preparation.
2. Students must have successfully (B or better) completed undergraduate coursework (or equivalent) in statistics, human anatomy (with lab), and human physiology (with lab), as well as the coursework below corresponding to the student's chosen area of study.
   - Exercise and Nutrition in Health and Disease
     - Exercise physiology or medical physiology
     - Exercise testing and prescription or performance assessment
     - Psychological or sociological aspects of human behavior (or equivalent)
     - Introduction to nutrition or eating behavior
   - Integrative Human Performance
     - Exercise physiology or medical physiology
     - Exercise testing and prescription or performance assessment
     - Sport & exercise psychology
   - Neuromechanics
     - Biomechanics or physics
     - Motor behavior or a psychology course including human movement
3. Submission of scores on the General Test of the Graduate Record Examination ([http://uwm.edu/graduateschool/admission/#gre](http://uwm.edu/graduateschool/admission/#gre)).
4. Two letters of recommendation to the Department’s Kinesiology Graduate Program Director from persons familiar with applicant’s academic ability and achievement.

For more specific information about departmental requirements for admission, please visit the Kinesiology Department website ([http://uwm.edu/healthsciences/academics/masters-kinesiology/#admission](http://uwm.edu/healthsciences/academics/masters-kinesiology/#admission)).

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters.

The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants with undergraduate majors in areas other than those noted in this section may be admitted on a similar basis.

Applicants should visit the UWM MS Kinesiology website ([http://uwm.edu/healthsciences/academics/masters-kinesiology/](http://uwm.edu/healthsciences/academics/masters-kinesiology/)) for additional information and deadlines.

**Credits and Courses**

The minimum degree requirement is 33 graduate credits for Option A and B. Option A and B students must take 6 credits of core courses and 9 credits from their primary focus area:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
<td></td>
</tr>
<tr>
<td>KIN 703</td>
<td>Survey of Research in the Human Movement Sciences</td>
<td></td>
</tr>
<tr>
<td>or PRPP 705</td>
<td>Foundations of Clinical Research</td>
<td></td>
</tr>
</tbody>
</table>

**Primary Focus Area**

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

Students will also be required to take a minimum of 12 credits (thesis) or 15 credits (capstone project) of electives that will serve as specialization courses. Elective courses may be selected from inside and outside the Department of Kinesiology.

**Option A: Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core and Primary Focus Area courses (see table above)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Specialization Coursework</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>KIN 895</td>
<td>Research and Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

Students prepare a research thesis, which will earn 6 credits within the required 33 graduate credit minimum. Each student is responsible for identifying a major professor and a thesis committee before completing 12 graduate credits. The thesis committee should consist of a minimum of three graduates Faculty; the major professor from the student's primary area of study, a departmental faculty member from the primary area of study, and one other departmental or other UWM graduate faculty member. The thesis committee approves a program of studies designed to lead the student into the thesis research area. To make subsequent changes, the student must petition the departmental Graduate Faculty Committee prior to any intended change.

**Option B: Non-Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core and Primary Focus Area courses (see table above)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Specialization Coursework</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
applicants to the PhD program in Kinesiology must also:

In addition to meeting the UWM Graduate School's criteria for admission, applicants to the PhD program in Kinesiology must also:

1. Possess, or be in the process of completing, a MS degree in Kinesiology or closely related field. In exceptional cases, applicants with a BS degree in Kinesiology or closely related field who demonstrate significant involvement in research and exceptional academic achievement may be considered for admission.

2. Submit a curriculum vitae that includes all academic institutions attended, degrees achieved, and academic and professional accomplishments (e.g., publications, presentations).

3. Submit verbal, quantitative, and analytical writing scores from the GRE (http://uwm.edu/graduateschool/admission/#gre) General Test taken within five years of the application date.

4. Demonstrate, through submission of official transcripts from all institutions attended, a minimum grade point average of 3.0 for the highest degree program in which the student enrolled and/or completed. Particular attention will be paid to grades in classes that are relevant to the selected area of emphasis for the PhD Kinesiology program. Applicants currently enrolled in a baccalaureate program must demonstrate a minimum undergraduate grade point average of 3.0.

5. Solicit two confidential letters of recommendation from previous university instructors and/or faculty advisors. These letters should be sent directly from the letter writer to the program director.

6. Submit a writing sample from a research project in which the applicant was involved. Acceptable writing samples include, but are not limited to, submitted/published manuscripts, submitted/published abstracts, review of literature, report of a completed research project, research proposal, etc.

7. Submit a letter of intent that addresses the applicant’s research interests (including intended area of emphasis and advisor at UWM) conducted research, ongoing research and career goals.

The final admission decision is contingent upon the availability of a faculty member to serve as primary advisor for the student.

Kinesiology, PhD

"Kinesiology is an academic discipline which involves the study of physical activity and its impact on health, society, and quality of life." — American Kinesiology Association

With a focus on the interrelationships between movement and health, the foundation of the Ph.D. in Kinesiology curriculum provides students with both the classroom and experiential training that is critical to becoming a successful scholar. The Kinesiology doctoral program includes balanced and comprehensive doctoral-level training in Kinesiology theory, research methodology, and statistics that culminates in an innovative and publishable dissertation reflecting an integration of scientific discovery and application. The program focuses on developing scholars in areas of emphasis that align with faculty expertise.

The Kinesiology doctoral program provides students with excellent research training for academic and professional careers that require theory-driven basic and/or applied research skills, such as faculty and/or administrative positions within colleges and universities; careers in nonprofit service and research organizations; policy-making positions in government agencies and institutions; and careers in for-profit businesses.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

In addition to meeting the UWM Graduate School’s criteria for admission, applicants to the PhD program in Kinesiology must also:

1. Possess, or be in the process of completing, a MS degree in Kinesiology or closely related field. In exceptional cases, applicants with a BS degree in Kinesiology or closely related field who demonstrate significant involvement in research and exceptional academic achievement may be considered for admission.

2. Submit a curriculum vitae that includes all academic institutions attended, degrees achieved, and academic and professional accomplishments (e.g., publications, presentations).

Credits and Courses

The program requires students to complete a minimum of 58 graduate credits beyond the master’s degree, or a minimum of 79 credits beyond the bachelor’s degree. The curriculum is comprised of five main components:

1. Core curriculum
2. Area of emphasis curriculum
3. Cognate
4. Electives
5. Dissertation

All coursework will be decided upon and approved by the student and their PhD committee.

Credit distribution will be as follows:

Students entering with a MS:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Area of Emphasis Curriculum</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Cognate</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Dissertation</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>58</td>
</tr>
</tbody>
</table>

Students entering with a BS:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Area of Emphasis Curriculum</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Cognate</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>
Dissertation 12
Total Credits 79

All credits listed are minimum required credits for the program.

**Core Curriculum**
The core curriculum focuses on developing the knowledge and skills necessary for students to conduct sound and innovative research, and to develop as a scholar. Coursework included in the core curriculum focuses on research methodology and design, statistical analysis, ethical conduct of research, professional development, and teaching and learning coursework.

### Code Title Credits

**Focus**
- **Seminar**
  - Take the following for 1 credit repeated 4 times: 4
- **KIN 910** Advanced Seminar in Health Sciences 1

**Teaching and Learning**
- Select one of the following: 3
  - **KIN 909** Guided Teaching Experience in Health Sciences

**Research Methodology and Design**
- **OCCTHPY 990** Research and Dissertation 1-6
- **PRPP 705** Foundations of Clinical Research 2-3

**Statistics**
- Select a minimum of 6 credits from possible eligible courses which include, but are not limited to the following: 6
  - **KIN 702** Statistical Analysis in the Health Sciences
  - **SOC WRK 961** Introduction to Statistical Methods
  - **SOC WRK 962** Applied Multiple Regression Analysis
  - **SOC WRK 963** Measurement Methods and Related Multivariate Statistics
  - **SOC WRK 964** Advanced Statistical Methods

Total Credits 17-23

**Additional Requirements**

**Major Professor as Advisor**
The Graduate School requires that each doctoral student have a major professor to advise, supervise and approve the program of study before registering for courses. The major professor also serves as a research mentor, the chair of the dissertation committee, and chair of the committee hearing the dissertation defense. Each student will be assigned an advisor upon admission based on area of research interest. The major professor must have graduate faculty status.

**Area of Emphasis Curriculum**
Students will propose an area of emphasis in consultation with their advisor and take an array of courses, offered within and outside the Department of Kinesiology, that explore the main dimensions of that area. The academic area of specialization within Kinesiology will be identified prior to the student's entry into the program. The student's doctoral committee will be charged with reviewing their program of study to ensure that sufficient doctoral level coursework will be/has been completed.

**Cognate**
The cognate area, within or outside Kinesiology, will complement the student's area of concentration (e.g., Area of emphasis: Exercise Physiology; Cognate: Nutrition), and will be identified by the end of the first year of coursework. Coursework in the cognate may include classes offered within and/or outside the Department of Kinesiology. As with the area of emphasis curriculum, the student's doctoral committee will be charged with reviewing the program of study to ensure that sufficient doctoral level coursework will be/has been completed.

**Electives**
Students will have the opportunity to broaden their knowledge by taking supplemental courses in teaching and learning, grantsmanship, manuscript preparation, professional development, and other areas that complement their program of study.

**Dissertation**
The completion of a dissertation, consisting of original research, will be the final step in earning a Ph.D. in Kinesiology from the University of Wisconsin-Milwaukee.

In addition to formal coursework, students are required to successfully complete a preliminary examination, a dissertation proposal, and a dissertation defense. It is expected that this degree will take an average of four to five years for a full-time student to successfully complete.

**Preliminary Exam**
After students successfully complete the required credits of didactic coursework in the Core, Area of Emphasis, and Cognate areas, the student will sit for the preliminary examination. The preliminary examination will assess the level of knowledge and understanding related to coursework taken in the area of emphasis, cognate area, as well as research methodology and statistics. Specifically, the purpose of the preliminary exam is to provide the student with an opportunity to demonstrate their current knowledge, and ability to apply and integrate knowledge gained in classes with the current body of literature and in their own research. The preliminary examination process must be successfully completed before a student can formally become a dissertator, and must be completed within five years of initial doctoral program enrollment.

The preliminary exam format includes the following:

**Area of Emphasis Examination**
One written exam where the student will not have access to notes or other materials. The exam will require students to demonstrate their understanding of fundamental ideas, theories, and/or concepts within their area of emphasis.

**Cognate Examination**
One written exam where the student will not have access to notes or other materials. The exam will require students to demonstrate their understanding of fundamental ideas, theories, and/or concepts within their area of emphasis.

**Integrative Examination**
The student will prepare a grant proposal (format approved by the doctoral committee) and orally defend their grant proposal to their doctoral committee. This written and oral exam will focus on a topic related to their area of emphasis, but not the student's primary dissertation research question. The topic must be agreed upon by the student and their committee. The integrative examination will provide the student with an opportunity to demonstrate their ability to analyze,
evaluate, and hypothesize on research and theory pertaining to a selected area of Kinesiology.

This format gives the student three options: (1) Area of Emphasis examination and Cognate examination; (2) Integrative examination; and (3) Area of Emphasis examination, Cognate Examination and Integrative examination. After consulting with the student, the faculty advisor will decide which of the three options the student will complete for her/his preliminary examination.

**Appeals Process**
Any appeal (grades, preliminary exam decision, dissertation proposal decision, etc.) initiated by the student must follow the appropriate steps for appeals (http://uwm.edu/graduateschool/appeals-exceptions/) as outlined by the Graduate School.

**The Dissertation Process**

**Dissertation Proposal and Proposal Hearing**
Upon successful completion of the preliminary examinations, the student submits a written dissertation proposal to the doctoral committee and conducts a public oral presentation of the proposed research. Notification of the oral presentation will be publicly posted ten business days (two calendar weeks) prior to the presentation. The committee then votes on whether to allow the student to move forward with the plan presented. Committee approval of the dissertation proposal establishes agreement on the plan and confirms that the student has adequate preparation to complete the research.

Per UWM Graduate School guidelines (http://uwm.edu/graduateschool/doctoral-milestones/), “Any significant changes to the dissertation as presented in the proposal hearing must be approved. A new proposal and proposal hearing are required.”

**Dissertation**
The dissertation is a major piece of original research representing a substantial contribution to the existing body of knowledge. The student's major professor and doctoral committee provide guidance in completing the dissertation. The final written document may follow a traditional or manuscript format.

- For dissertations following the traditional dissertation format, the formatting of the dissertation document will follow guidelines (http://uwm.edu/graduateschool/thesis-dissertation-formatting/) published by the UWM Graduate School and consist of an introduction, review of literature, method, results and discussion sections.
- For dissertations following the manuscript format, the dissertation document will follow guidelines (http://uwm.edu/graduateschool/thesis-dissertation-formatting/) published by the UWM Graduate School and consist of an introduction to the content area and line of research, two to four manuscripts, a summary of the impact of the current work on the existing body of literature, and an overall conclusion.

**Dissertation Defense**
The student must present and defend the dissertation in a public forum. Successful completion of the dissertation defense will require approval by a majority of doctoral committee members.

**Time Limit**
In accordance with Graduate School policy, all degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

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**Nutritional Sciences, BS (Department of Kinesiology)**
The Nutritional Sciences Program is a 120-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences Program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Courses</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Foundation Courses (includes advanced General Education Requirements)</td>
<td>42-55</td>
</tr>
<tr>
<td></td>
<td>Nutrition Core</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Advanced Nutrition Core</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Additional Requirements</td>
<td>16-29</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

**Admission and Prerequisites**
All students are eligible to pursue general education requirements and foundations courses associated with the curriculum as long as they meet the necessary prerequisites for each course. The UWM General Education Requirements (p. 29) are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Competency Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication (OWC) Part A &amp; B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) Part A &amp; B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distribution Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>1</td>
</tr>
</tbody>
</table>

1 Required courses in the curriculum satisfy these General Education Requirements

Students are considered “Nutritional Sciences-Intended” until they have completed their General Education Requirements, Foundations courses and the Nutrition Core. To be eligible for admission to the major and enrollment in the advanced core nutrition courses, students must have a UWM cumulative grade point average (GPA) of 2.50 or higher, and the following prerequisite courses must be completed with a minimum grade of C:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundations (credit totals will vary by Chemistry sequence chosen)</td>
<td>42-55</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
</tbody>
</table>
### Nutritional Sciences, Minor (Department of Kinesiology)

**Nutritional Sciences, Minor (Department of Kinesiology)**

The Minor in Nutritional Sciences provides students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, and the myriad of influences on food choice and eating behavior throughout the life cycle. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological basis of nutrition, as a multidisciplinary science with relevance to health.

Upon completion of the Minor in Nutritional Sciences, students will be able to:

- Describe the relationship between food and nutrients in human health and well-being;

**Graduation Requirements**

Once admitted to the program, students must earn a minimum GPA of 2.75 in all advanced core nutrition courses, and no more than three of the Core and Advanced Core courses may be repeated. Students must complete a minimum of 120 credits with a minimum cumulative GPA of 2.5 to be eligible for graduation.

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

---

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 101</td>
<td>Introduction to the Nutrition Profession</td>
<td>1</td>
</tr>
<tr>
<td>NUTR 110</td>
<td>Introduction to Food Principles &amp; Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

No more than four of the Foundations courses listed above may be repeated.

---

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Core (Minimum GPA of 2.75 is required in this category)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 470</td>
<td>Nutrition Internship/Project</td>
<td>4</td>
</tr>
<tr>
<td>NUTR or KIN course 500 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Electives (9 credits must be at the 300 level or above) 16-29

Students with Chemistry sequence with 3 credits of Organic Chemistry and culminating in CHEM 501 must complete 21 elective credits

Students with Chemistry sequence with 8 credits of Organic Chemistry and culminating with CHEM 501 will complete 16 elective credits
- Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
- Apply nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth and development, maturation, and aging;
- Examine the multiple levels of influence (i.e., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) that shape food choice and eating behavior;
- Apply scientific principles of basic food chemistry in examining food’s physical aspects and preparation; and
- Apply biological and biochemical principles to the understanding of the human digestion and metabolism of macro- and micronutrients.

**Admission and Requirements**

Students may declare their intent to pursue the Nutritional Sciences Minor on the program’s website. Students must satisfy the following requirements to be eligible to declare the minor:

- 2.5 Cumulative GPA
- Minimum grade of C in the following 15 credits of Core Nutrition Courses (or In Progress):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 110</td>
<td>Introduction to Food Principles &amp; Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235 or BMS 232</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Once the Admission requirements listed above are met (15 credits), students may progress and choose the 6 credits of Advanced Coursework that best meets their goals for completion of the Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td>6</td>
</tr>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td></td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td></td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td></td>
</tr>
<tr>
<td>NUTR 550</td>
<td>Sports Nutrition</td>
<td></td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td></td>
</tr>
<tr>
<td>KIN 574</td>
<td>Obesity and Weight Management</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits from the following: 1

Students concurrently enrolled in a bachelor’s degree program successfully completing the program requirements will be awarded the Minor in Nutritional Sciences at the time of graduation.

Academic advisors within the College of Health Sciences Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at (414) 229-2758.

**Occupational Science and Technology**

The Department of Occupational Science and Technology (OST) offers a 120-credit undergraduate program in the area of occupational studies (OS). The OS undergraduate degree offers a flexible educational path. Combined with a blend of elective courses, a degree in the area of occupational studies may prepare the student to work in different health and human service settings. The OS degree combined with the Therapeutic Recreation (TR) courses offers a viable career path. There is a steady need for Recreational Therapists to assist in the care and prevention of age-related illness and injuries and provide opportunities for individuals with disabilities. It is recommended that students pursue employment under a Certified Therapeutic Recreation Specialist (CTRS) to be eligible to sit for the National Council for Therapeutic Recreation Certification (NCTRC) exam to obtain the professional credential. Additionally, graduates will be particularly well-prepared for further graduate study in occupational therapy and other disability-related disciplines. The efficient degree program is in concert with the University mission “to further academic and professional opportunities at all levels for women, minority, part-time, and financially or educationally disadvantaged students.” Students have the flexibility to complete the revised curriculum in a reasonable (4 year) period of time.

The Department of Occupational Science and Technology offers a Master of Science in Occupational Therapy that prepares students to become occupational therapists. During the program, students engage in graduate-level instruction embedded in the theory, research, and clinical underpinnings required to become evidence-based occupational therapy practitioners. Students may select a thesis option or project option in pursuing this degree. Students who are interested can choose to combine elective courses from the OT program with other courses on campus to receive the transcript-designated concentration in assistive technology and accessible design and/or ergonomics. (Note: The ergonomics concentration is being revised; admission to the program is temporarily suspended.) Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (http://www.acoteonline.org/) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE’s telephone number c/o AOTA is (301) 652-AOTA (2682).

**Programs**

- Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 642)
- Occupational Science and Technology, BS (p. 644)
- Occupational Therapy, MS (p. 648)
The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The Departments of Occupational Science and Technology and Communication Sciences Disorders in the College of Health Sciences, along with the Department of Teaching and Learning in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses. Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, and an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

Credits and Courses
Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the undergraduate level. One of the following is recommended to meet the computer applications requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 730</td>
<td>Assistive and Instructional Technology for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 750</td>
<td>Computer Applications in Occupational Therapy Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Intervention
Select one of the following:
OCCTHPY 625 Design and Disability
OCCTHPY 595 Vision I: Introduction to Low Vision & Visual Impairment
OCCTHPY 596 Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention
OCCTHPY 593 Introduction to Biomedical and Rehabilitation Instrumentation
OCCTHPY 999 Advanced Independent Study
EXCEDUC 735 Technology & Instruction for Students with Disabilities
EXCEDUC/OCCTHPY 777 Fieldwork in Assistive Technology
EXCEDUC 799 Independent Reading
COMSDIS 717 Special Populations in Communication Disorders
COMSDIS 791 Research Experience in Communication Sciences and Disorders
COMSDIS 799 Independent Studies

Elective
Select an additional 3 credits from either Assessment or Intervention list

Capstone
OCCTHPY 760 Assistive and Rehabilitation Technology

Total Credits 15

1 Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.
2 Any U/G course must be taken at graduate level.

Additional Requirements
Minimum Grade Requirement
To be awarded the certificate, students must earn a minimum grade of B in the certificate courses (B- not allowed).

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
• All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
• Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Occupational Science and Technology, BS**

You’ve decided you enjoy working with persons with disabilities either through direct care or administrative service. Not quite sure which is the best career path? The Bachelor of Science in Occupational Science and Technology allows you the chance to pursue a variety of career options. A flexible educational path, combined with a blend of elective courses, and you’ll be prepared to work in different health and human service settings.

You will also be particularly well prepared for further graduate study in Occupational Therapy and other disability related disciplines. Acceptance and completion of the undergraduate program in occupational studies does not guarantee admission into the Master of Occupational Therapy Program.

Become part of a large interdisciplinary department with specialty areas in assistive technology, engineering, occupational therapy and therapeutic recreation. Learn from faculty who are among the strongest in the nation in terms of their leadership, professional credentials and research productivity.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundation</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Track</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Free Electives and GER</td>
<td>35-41</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120-126</td>
</tr>
</tbody>
</table>

**Degree Requirements**

Students will automatically be admitted to the major after completion of 57 credits. Within those 57 credits students must have a B- or better in:

- BIO SCI 202
- OCCTHPY 151
- OCCTHPY 201
- PSYCH 101
- THERREC 202

At the time of admission to the major, students must declare at least one track that they will complete.

Upon admission to the major, students must maintain a 2.75 cumulative GPA. Failure to attain a semester GPA of 2.75 or higher will result in the student being placed on academic probation for one semester. A second semester GPA below 2.75 will result in dismissal from the program. Program required courses can be repeated. Any given course may be repeated only one time.

Students must achieve the following to complete an undergraduate degree in occupational science and technology:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master's degree is required for professional practice as an occupational therapist or many other health-related fields, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;

2. Satisfactory completion of the University General Education Requirements (p. 29); and

3. Completion of the last 30 credits in residence at UWM.

Students are encouraged to contact your advisor at the beginning of your senior year to ensure that all requirements are being met.

**Course of Study**

The program is divided into foundation, core or required, track and free elective courses. The undergraduate program requires 120 credits for graduation. All students admitted to the professional program must satisfy University-wide General Education Requirements (GER) (p. 29), (except second-degree candidates who are exempt). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor’s degree in Occupational Science and Technology Studies, students need to take responsibility to complete all foundation and core courses, GER requirements, at least one program track, and sufficient free elective credits. A number of GER courses are part of the degree requirements. Recommended free electives and certificate/minor programs are listed to assist the student in creating an individualized area of study.

Requirements are subject to change as of the publication date of the catalog. Please check with the Office of Student Affairs for the most current information.
### Social Sciences
- **Cultural Diversity Foundation**
  - BIO SCI 202: Anatomy and Physiology I 4
  - BIO SCI 203: Anatomy and Physiology II (GER NS) 4
  - COMMUN 103: Public Speaking 3
  - ENGLISH 205: Business Writing (OWC-B) 3
  - ENGLISH 207: Health Science Writing 3
  - HCA 203: Human Life Cycle (GER SS) 3
  - KIN 270: Statistics in the Health Professions: Theory and Practice (QL-B) 3
  - OCCTHPY 151: Foundations of Scientific Inquiry for Occupational Studies 3
  - PHYSICS 120 & PHYSICS 121: General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment) (GER NS) 5
- PSYCH 101: Introduction to Psychology (GER SS) 3
- PSYCH 412: Abnormal Psychology 3

### Program Core - maximum of 1 course may be repeated
- OCCTHPY 201: Introduction to Occupational Science and Technology 3
- OCCTHPY 220: Gizmos and Gadgets: Introduction to Assistive Technology 3
- OCCTHPY 245: Client Diversity in Health Sciences: An Interdisciplinary Perspective (GER CD and SS) 3
- OCCTHPY 260: Enhancing Health Through Activity, Occupation and Technology I 3
- OCCTHPY 320: Introduction to Ergonomics for Healthcare Professionals 3
- OCCTHPY 340: Evidenced for Practice I: Applications of Biostatistics 3
- OCCTHPY 341: Evidence for Practice II: Appraising Evidence 3
- OCCTHPY 401: Overview of Medical Conditions 3
- OCCTHPY 530: Contemporary Issues and Professional Preparation in Occupational Studies 3

### OCCTHPY 250: Concepts of Time and Occupation 3
- THERREC 303: Inclusive and Disability Programs in the Community 3
- OCCTHPY 315: Group Process in Rehabilitation 3
- OCCTHPY 401: Overview of Medical Conditions 3
- OCCTHPY 505: Work and Disability 3
- OCCTHPY 625: Design and Disability 3

### Total Credits: 21

### Applications of Assistive Technology - This track is aimed towards students who are interested in applying technology and/or designing environments and products that enhance the capabilities of persons living with and without a disability.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 220</td>
<td>Gizmos and Gadgets: Introduction to Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 250</td>
<td>Concepts of Time and Occupation</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 420</td>
<td>Principles of Human Factors and Usability</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 521</td>
<td>Essentials of Assistive and Rehabilitation Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability (U/G)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credits: 21

### Therapeutic Recreation - This Track is aimed toward students who are interested in the areas of Therapeutic Recreation, Activities or Adapted Community Recreation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 103</td>
<td>Life Balance: An Understanding of Leisure</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 203</td>
<td>Therapeutic Recreation Process</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 300</td>
<td>Therapeutic Recreation Assessment and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 308</td>
<td>Therapeutic Recreation in Physical Rehabilitation and Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 310</td>
<td>Facilitation Techniques in Therapeutic Recreation</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 400</td>
<td>Issues and Trends in Therapeutic Recreation (TR)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credits: 18

### Recommended Minors/Certificates (not inclusive)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 202</td>
<td>Disability: Society and the Person (GER SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

### College of Health Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate in the Study of Complementary and Alternative Medicine (CAM)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Certificate in Healthy Aging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor in Health Care Administration</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Occupational Science and Technology, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

- **6 total courses** | 17 |
- **Minor in Kinesiology** | 8 total courses |
- **8 total courses** | 18 |
- **Minor in Nutritional Sciences** | 7 courses |
- **21** |

### College of Letters and Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

- **Certificate in Childhood and Adolescence Studies** | 6 total courses |
- **18** |
- **Certificate in Global Health** | 7 courses |
- **21** |
- **Certificate in Spanish for Health Professionals** | 6 courses |
- **18** |
- **Minor in Anthropology** | 6 courses |
- **18** |
- **Minor in Communication** | 6 courses |
- **18** |
- **Minor in Psychology** | 6 courses |
- **18** |
- **Minor in Sociology** | 6 courses |
- **18** |

### Lubar School of Business

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

- **Minor in Business** | Varies depending on student plan |
- **29** |

### School of Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

- **Autism Spectrum Disorders** | 5-6 total courses |
- **15-18** |
- **Community Engagement** | 6-7 courses |
- **21** |

### Students Entering the OS Program Prior to Fall 2017

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

- **Foundation** | 47 |
- **Department Electives** | 21 |
- **Program Core** | 24 |
- **Free Electives and GER** | 28 |
- **Total Credits** | 120 |

### Admission to the Major

Students will automatically be admitted to the major after completion of 57 credits. Upon admission to the Occupational Studies major, students must maintain a 2.75 cumulative GPA. Students may repeat a departmental required course only one time.

### Degree Requirements

Students must achieve the following to complete an undergraduate degree in occupational studies:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master’s degree is required for professional practice as an occupational therapist or many other health-related fields, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;

2. Satisfactory completion of the University General Education Requirements (p. 29); and

3. Completion of the last 30 credits in residence at UWM.

Students are encouraged to contact your advisor at the beginning of your senior year to ensure that all requirements are being met.

### Course of Study

The program is divided into foundation, core or required, and elective courses. The undergraduate program requires 120 credits for graduation. All students, except second degree candidates, admitted to the professional program must satisfy University-wide General Education Requirements (GER) (p. 29). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor’s degree in Occupational Studies, students need to take responsibility to complete all required courses, GER requirements, and elective credits. A number of GER courses are part of the degree requirements. Some GER courses are available within the Occupational Science and Technology Department programs and the College of Health Sciences. See listing below for delineation of GER courses.

Requirements are subject to change. Please check with the Office of Student Affairs for the most current information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

- **Foundation** | 4 |
- **BIO SCI 202** | Anatomy and Physiology I |
- **BIO SCI 203** | Anatomy and Physiology II (GER NS) |
- **BMS 260** | Introduction to Complementary and Integrative Health Approaches (GER SS) |
- **COMMUN 103** | Public Speaking |
- **ENGLISH 205** | Business Writing (OWC-B) |
- **ENGLISH 207** | Health Science Writing (OWC-B) |
- **HCA 203** | Human Life Cycle (GER SS) |
- **HS 105** | Survey of the Health Professions |
- **HS 222** | Language of Medicine |
- **KIN 270** | Statistics in the Health Professions: Theory and Practice (QL-B) |
- **MATH 211** | Survey in Calculus and Analytic Geometry (QL-B) |
- **PHYSICS 120** | General Physics I (Non-Calculus Treatment) |
- **PHYSICS 121** | General Physics Laboratory I (Non-Calculus Treatment) (GER NS) |
- **PSYCH 101** | Introduction to Psychology (GER SS) |
- **PSYCH 205** | Personality (GER SS) |
- **PSYCH 412** | Abnormal Psychology |
- **OCCTHPY 151** | Foundations of Scientific Inquiry for Occupational Studies |
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 201</td>
<td>Introduction to Occupational Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective (GER CD and SS)</td>
<td>3</td>
</tr>
<tr>
<td>or THERREC 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 260</td>
<td>Enhancing Health Through Activity, Occupation and Technology I</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 401</td>
<td>Overview of Medical Conditions</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 315</td>
<td>Group Process in Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 340</td>
<td>Evidenced for Practice I: Applications of Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 341</td>
<td>Evidence for Practice II: Appraising Evidence</td>
<td>3</td>
</tr>
</tbody>
</table>

**Department Electives**

Select a minimum of 21 credits from the following: 21

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation (U/G)</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment (U/G)</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability (U/G)</td>
<td></td>
</tr>
<tr>
<td>THERREC 103</td>
<td>Life Balance: An Understanding of Leisure (GER HU)</td>
<td></td>
</tr>
<tr>
<td>THERREC 203</td>
<td>Therapeutic Recreation Process</td>
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<tr>
<td>THERREC 300</td>
<td>Therapeutic Recreation Assessment and Documentation</td>
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</tr>
<tr>
<td>THERREC 303</td>
<td>Inclusive and Disability Programs in the Community</td>
<td></td>
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<tr>
<td>THERREC 308</td>
<td>Therapeutic Recreation in Physical Rehabilitation and Behavioral Health</td>
<td></td>
</tr>
<tr>
<td>THERREC 310</td>
<td>Facilitation Techniques in Therapeutic Recreation</td>
<td></td>
</tr>
<tr>
<td>THERREC 400</td>
<td>Issues and Trends in Therapeutic Recreation (TR)</td>
<td></td>
</tr>
</tbody>
</table>

**Free Electives and GER**

Select 28 credits in Free Electives from Campus and GER Courses 28

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 202</td>
<td>Disability: Society and the Person (GER SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 126

**Recommended Free Electives**

The number of free electives required varies (23-29 credits) depending on the track that you follow. You must take a minimum of 9 credits at the 400 level or higher. We encourage you to pursue a minor or certificate program with your free electives.

(not inclusive)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 250</td>
<td>Interprofessional Communication in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HS 105</td>
<td>Survey of the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>SPT&amp;REC 112</td>
<td>Yoga I</td>
<td>1</td>
</tr>
<tr>
<td>SPT&amp;REC 113</td>
<td>Yoga II</td>
<td>1</td>
</tr>
<tr>
<td>SPT&amp;REC 298</td>
<td>Meditation, Relaxation, and Wellness:</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**UWM**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 101</td>
<td>Introduction to Anthropology: Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>BME 101</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 200</td>
<td>Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 433</td>
<td>Neuropsychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 331</td>
<td>Sociology of Health Care</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 341</td>
<td>Sociology of Deviant Behavior</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Occupational Therapy, MS

Related Certificates

- Certificate in Assistive Technology and Accessible Design (http://uwm.edu/graduateschool/assistive-technology-accessible-design-certificate/)
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Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (http://www.acotheonline.org/) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE’s telephone number c/o AOTA is (301) 652-AOTA (2682).

All students admitted to the MS in Occupational Therapy degree program will be required to complete a Background Information Disclosure form (HFS64). A background check, which identifies a past criminal record, does not necessarily preclude an individual from pursuing studies in occupational therapy or becoming a successful practitioner. Should there be a discrepancy between the information reported by the student on HFS-64 and the reports issued by the Department of Justice and the Department of Health and Family Services, the student will be subject to dismissal from the occupational therapy program and reported to DHFS per HFS 12.20 (1)(c), Wis. Adm. Code

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Admission
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In addition to Graduate School requirements (http://uwm.edu/graduateschool/admission/), applicants must meet these departmental requirements to be considered for admission to the program.

1. An undergraduate degree completed by the end of the Spring semester of the year prior to beginning the OT Program, from an accredited institution, with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Six prerequisite courses, required to be completed by end of Fall semester of the year prior to beginning the OT Program, with a minimum grade point average of 3.0 (on a 4.0 scale):

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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Human Anatomy</td>
<td>3-4</td>
</tr>
<tr>
<td>1</td>
<td>Human Physiology</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following natural science courses:</td>
<td>3-5</td>
</tr>
<tr>
<td>2</td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Chemistry</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Psychology</td>
<td></td>
</tr>
</tbody>
</table>
The Concentration in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The College of Health Science’s Departments of Occupational Science & Technology and Communication Sciences Disorders, along with the School of Education’s Department of Teaching and Learning, collaborate on the course offerings. The concentration emphasizes technologies for disability.

**Related Certificates**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 580</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td>3-4</td>
</tr>
</tbody>
</table>

3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) taken within the last five years.
4. Completed OTCAS application.
5. Three letters of recommendation: One letter must be from an academic source and one from a clinical/health-related source. The third letter can be either from an academic or clinical / health-related source. All three letters must use the OTCAS form.
6. Reasons Statement or Personal Essay: This is the same as the OTCAS essay. Address why you selected occupational therapy as a career and how an occupational therapy degree relates to your immediate and long-term professional goals.
7. Additional Question: Answer why the Occupational Therapy Program in the Department of Occupational Science & Technology at the University of Wisconsin-Milwaukee is a good fit for you. Limit 250 words.

For all admission and application related questions, please contact (414) 229-4713 or OT-program@uwm.edu.

Credits and Courses
The program is a tracked curriculum of 75 credits over 28 months, including a minimum of 24 weeks of full-time fieldwork during the program. OCCTHPY 810 serves as the capstone requirement for the degree. Students will enroll as full time students for each term of study (Summer, Fall, Spring). There is no part-time option for students in the MS in OT program. Students must maintain a GPA of 3.0 and a grade of B- or better in all required courses. Students who do not maintain this will be placed on probation.

Transcript-Designated Concentrations
Through judicious use of electives, students may also choose one of two transcript-designated concentrations. This may require completion of more than the minimum 75 credits.

Assistive Technology and Accessible Design

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>3-4</td>
</tr>
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<td>OCCTHPY 620</td>
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<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 760</td>
<td>Assistive and Rehabilitation Technology</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 777</td>
<td>Fieldwork in Assistive Technology</td>
<td>3-4</td>
</tr>
<tr>
<td>OCCTHPY 999</td>
<td>Advanced Independent Study</td>
<td>3-4</td>
</tr>
<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
<td>3-4</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Select a minimum of 6 credits from the following:

| OCCTHPY 595 | Vision I: Introduction to Low Vision & Visual Impairment |
| OCCTHPY 596 | Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention |
| OCCTHPY 760 | Assistive and Rehabilitation Technology |
| OCCTHPY 770 | Assessment in Assistive Technology and Accessible Design |
| OCCTHPY 777 | Fieldwork in Assistive Technology |
| OCCTHPY 999 | Advanced Independent Study |
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| IND ENG 580 | Ergonomics |

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<td></td>
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</tr>
<tr>
<td>Physics</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

1 Courses requiring a lab component.
2 Courses with laboratory-based data analysis required.

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<tbody>
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<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>9</td>
</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td></td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td></td>
</tr>
</tbody>
</table>

Electives

6

Select a minimum of 6 credits from the following:

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<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 470</td>
<td>Methods Engineering</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 788</td>
<td>Legal Issues and Regulatory Agencies in Ergonomics</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 790</td>
<td>Design Project</td>
<td></td>
</tr>
</tbody>
</table>

Capstone

2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 810</td>
<td>Critical Evaluation of Theory, Research and Practice</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 17

Additional Requirements

Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

Time Limit

The student must complete all degree requirements within four years of initial enrollment.

Occupational Therapy, OTD

The Doctor of Occupational Therapy prepares licensed clinicians to become experts in an identified specialization area and will prepare them to become clinical leaders, translating new findings and evidence into practice. In this post-professional program, students will develop and demonstrate more advanced knowledge and skills, beyond those learned at the master’s level, in an occupational therapy concentration area.

UWM’s OTD Program welcomes licensed clinicians who have completed an ACOTE-accredited MSOT or MOT degree program (or WFOT equivalent). See “Requirements” for additional applicant eligibility information.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
Primary entry requirements are:

1. MSOT or MOT degree from an ACOTE-accredited program (or equivalent recognized by the World Federation of Occupational Therapists, WFOT).
2. Occupational therapy licensure (or international equivalent approved by WFOT). Current master’s students may apply but cannot formally matriculate to the OTD program until they are licensed. Students may be provisionally admitted to the OTD program and accumulate credits toward graduation for one semester while required documentation is being prepared or approved.
3. The competitive admissions process also includes evaluation of the GPA, coursework, and professional experiences, as well as a statement of personal interests.

Practicing occupational therapists with a bachelor’s degree may be admitted on a case-by-case basis. Those who are accepted to the OTD Program will be expected to complete deficiency credits that ensure that their educational background is comparable to practitioners with a master’s degree, and will complete a minimum of 54 credits of graduate-level coursework at UWM.

Credits and Courses
The OTD program requires 33 credits, including 9 credits of required occupational therapy core courses beyond the level of the MS degree and 15 credits of electives in a concentration area chosen by students and their advisors. Students who need additional background preparation may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 810</td>
<td>Leadership for Advanced Practice in Healthcare</td>
<td>9</td>
</tr>
<tr>
<td>OCCTHPY 701</td>
<td>Advanced Measurement and Instrumentation in Health Care</td>
<td></td>
</tr>
</tbody>
</table>

Evidence Based Practice for Individuals & Populations

Area of Concentration (minimum of 15 credits)

Students work with faculty advisors to develop a statement of their proposed concentration area, their needed and desired knowledge and courses, a mentoring team, possible doctoral experience sites, and a doctoral project. Examples of potential doctoral concentrations are below.

Assistive Technology and Assessable Design

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 724</td>
<td>Advanced Design and Disability</td>
<td></td>
</tr>
</tbody>
</table>

The Doctoral Experience and the Doctoral Project (minimum of 9 credits)

Students must deliver and show competence in an evidence-based or evidence-informed population-based intervention that is still individualized. Ideally, the doctoral experience will also inform the student's doctoral project. The doctoral experience may occur in one 16-week period, or it may be spread out over a greater period, if the 640-hour criterion is met. Like the MS thesis and PhD dissertations, the culminating 6-credit hour doctoral project must be written, publicly presented and defended. Up to 3 credits may be transferred, on a case-by-case basis, for UW-Milwaukee MSOT graduates whose master's thesis or project will be used as the foundation of their OTD project.

Additional Requirements

Major Professor as Advisor
The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the OTD program upon acceptance into the program.

Time Limit
The OTD curriculum is designed to be completed in four semesters. Some students may require two or three years of combination full- and part-time coursework, especially if they choose to work part time, take additional courses, or want to invest more time to complete their project.

Incoming OTD students with advanced applicable coursework and experience may transfer graduate credits or place out of up to 6 credits that directly relate to their proposed Program of Study. UWM MSOT students may transfer up to 3 of their master's thesis or project credits and apply those to their OTD project credits requirement. Combined, these transfers could reduce the total credits required to 24 and would likely accelerate time to completion for some students.

Because circumstances beyond a student's control may prevent completion of requirements according to this timeline, students will be granted a maximum of ten years to complete the degree.

Contact Information
Kris A. Barnekow, PhD, OTR/L, Associate Professor
krisb@uwm.edu
Therapeutic Recreation, Undergraduate Certificate

Therapeutic Recreation (TR) is the provision of treatment services and recreation services to persons with illnesses or disabling conditions. The primary purposes of treatment services (also called recreation therapy) are to restore, remediate, or rehabilitate in order to improve functioning and independence. The primary purpose of recreation services is to provide recreation and leisure resources and opportunities to help improve health and well-being and enhance quality of life.

Therapeutic Recreation Specialists may work in hospitals, residential care, long-term care, schools, and a variety of community settings. Individuals served include people with mental, physical, or emotional disabilities. A variety of recreation/leisure activities are employed as tools to help those served attain independence and a high quality of life.

According to the U.S. Department of Labor, "The rapidly growing number of older adults is expected to spur job growth for recreational therapy professionals and paraprofessionals in assisted-living facilities, adult daycare programs, and other social assistance agencies. Continued growth also is expected in community residential care facilities, as well as daycare programs for individuals with disabilities." Given the projected need for recreation specialists, the College of Health Sciences at UWM has created a certificate program in Therapeutic Recreation (TR) available to a broad range of individuals, including students and TR and other human service professionals in the community. In addition, individuals who are certified with the National Council for Therapeutic Recreation Certification (NCTRC) wish to complete certificate coursework to comply with continuing education requirements.

The certificate focuses on the development of knowledge and acquisition of skills and abilities in the areas of health and TR. Courses present the concepts of health, wellness, disease, and illness in relation to quality of life for individuals with disabilities. Specific skill development in the areas of assessment and facilitation techniques is also taught and complemented with an ongoing focus on emerging issues in the field of therapeutic recreation. In preparation for the nationally recognized certification examination, coursework covers topic areas included in the NCTRC Job Analysis categories. The program may be taken by UWM undergraduates concurrently with their chosen major, or as a post-baccalaureate educational certificate program.

Related Programs and Degrees

Students interested in pursuing a career in Therapeutic Recreation may wish to examine one of the following degree programs at UWM:

**Bachelor of Art**
- Psychology
- Sociology

**Bachelor of Science**
- Biological Sciences
- Nursing
- Occupational Studies
- Social Work

Notes:
- Completion of this certificate program partially fulfills the academic coursework requirements for the NCTRC Certified Therapeutic Recreation Specialist credential. Additional requirements are needed to fully qualify for the credential.
  - Students interested in obtaining NCTRC certification are encouraged to visit the NCTRC website at [www.nctrc.org](https://nctrc.org/)

For more information about the certificate program, contact Patricia Thomas, TR Certificate Coordinator, at (414) 229-2507 or pthomas@uwm.edu.

**Requirements**

Five courses are required to successfully complete the totally online Certificate in Therapeutic Recreation. A minimum cumulative grade point average of 2.5 must be maintained on all the required coursework.

**TR Certificate Coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introductory courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THERREC 103</td>
<td>Life Balance: An Understanding of Leisure (SU/F/S)</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 202</td>
<td>Disability: Society and the Person (F)</td>
<td></td>
</tr>
<tr>
<td>THERREC 203</td>
<td>Therapeutic Recreation Process (SU/F)</td>
<td>1</td>
</tr>
</tbody>
</table>

| **Intervention courses** |                                                        | 11-12   |
| Select three of the following: |                                                        |         |
| THERREC 300  | Therapeutic Recreation Assessment and Documentation (S) | 1       |
| THERREC 303  | Inclusive and Disability Programs in the Community (F)| 1       |
| THERREC 308  | Therapeutic Recreation in Physical Rehabilitation and Behavioral Health (F) | 1       |
| THERREC 310  | Facilitation Techniques in Therapeutic Recreation (S) | 1       |

| **Capstone course** | Issues and Trends in Therapeutic Recreation (TR) (SU/F) | 3       |

**Total Credits**: 17-18

1. Required for students seeking the credential as a Certified Therapeutic Recreation Specialist (CTRS) with the National Council for Therapeutic Recreation Certification (NCTRC).

F, S, SU (fall, spring, summer) refers to the semesters in which courses are taught.

**Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology)**

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary
The goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Application**
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application ([https://graduateschool-apply.uwm.edu/](https://graduateschool-apply.uwm.edu/)).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum cumulative undergraduate grade point average to be admitted in to a certificate program.

**Admission**
Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

**Credits and Courses**
All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 774</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 775</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select 9 elective credits (see Potential Electives list below)</td>
<td>9</td>
</tr>
</tbody>
</table>

**Recommended Field Work**
Select 3-6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 921</td>
<td>Field Instruction V</td>
<td>1</td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td>1-3</td>
</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
<td>1-3</td>
</tr>
<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
<td>1-4</td>
</tr>
<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td>1-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 691</td>
<td>Practice Methods in Social Work: (Topic: Community Building &amp; Mindfulness)</td>
<td>1-3</td>
</tr>
<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 818</td>
<td>Treatment of Co-Occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 711</td>
<td>Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</td>
<td>1-4</td>
</tr>
<tr>
<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PH 732</td>
<td>Youth Mental Health Practice for Non Mental Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 704 &amp; COUNS 705</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others</td>
<td>6</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 744</td>
<td>Multicultural Mental Health Guidelines, Working with First Nations Persons</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 812</td>
<td>Clinical Studies in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

**Potential Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/CRM JST 497</td>
<td>Study Abroad: (Bristol or South Africa or Austria)</td>
<td>1-6</td>
</tr>
<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice: (Qualifying topics: Violent &amp; Traumatized Families or Motivational Interviewing)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
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<td>SOC WRK 691</td>
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<td>SOC WRK 680</td>
<td>Death and Dying</td>
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<td>Treatment of Co-Occurring Disorders</td>
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<tr>
<td>PSYCH 711</td>
<td>Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</td>
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<tr>
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<td>Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others</td>
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<td>COUNS 820</td>
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<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
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**Additional Requirements**

**Transfer Credit**
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.
Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Physical Therapy
At UWM’s College of Health Sciences, our goal is to develop practitioners, researchers and educators who will be leaders in the profession of physical therapy across the lifespan. And it’s a terrific time to join the PT field because physical therapists are in high demand: The U.S Bureau of Labor Statistics predicts that jobs for PTs will grow 34% between 2014-2024, much faster than average.

Programs
- Physical Therapy, DPT (p. 656)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carlynn A. Alt</td>
<td>Clinical Professor</td>
<td>PhD, PT</td>
<td>Marquette University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ann Dietrich</td>
<td>Clinical Professor, Director of Clinical Education</td>
<td>MS, PT</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer Earl</td>
<td>Associate Professor</td>
<td>PhD, LAT</td>
<td>Pennsylvania State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kyle T. Ebersole</td>
<td>Associate Professor</td>
<td>PhD, LAT</td>
<td>University of Nebraska</td>
<td></td>
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</tr>
<tr>
<td>Wendy Huddleston</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>Medical College of Wisconsin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Renee Mazurek</td>
<td>Clinical Professor</td>
<td>PT, DPT</td>
<td>University of Arizona</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Victoria A. Moerchen</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carrie Truebenbach</td>
<td>Clinical Professor</td>
<td>MS, MSPT, OCS</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kathryn R. Zalewski</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Physical Therapy, DPT
The Doctor of Physical Therapy (DPT) is the classroom based and clinical education that prepares graduates for entry into the practice of physical therapy. The goal of this entry-level professional education program is to graduate students who are knowledgeable, service-oriented, and reflective practitioners who are able to render independent judgements in people with movement system dysfunction that limits activity and participation. Find out why you should choose UWM to start your career in physical therapy.

The program begins in early June and includes classroom, laboratory, research and clinical learning experiences. Admission to the DPT program is competitive. The faculty values a well-rounded applicant who has demonstrated both academic and personal/professional potential. Our graduates have perfect performance on the NPTE licensing examination.

The Doctor of Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; e-mail: accreditation@apta.org; website: www.capteonline.org.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Admission to the program is highly competitive. A snapshot of the typical successful applicant is available on the program website’s Frequently Asked Questions (http://uwm.edu/healthsciences/academics/doctoral-physical-therapy/#faq) section. The DPT program enrolls students through the Physical Therapy Centralized Application Service (PTCAS) (http://www.ptcas.org/). Policies and procedures related to consideration of the candidate are published on the PTCAS website and updated annually. Students apply to the UWM Graduate School after being

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
recommended for Admission by the DPT program. Undergraduate degree and prerequisite coursework must be completed by the time the student enrolls in the DPT Program.

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Completion of an undergraduate degree from an accredited institution with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Completion of 10 prerequisite courses with a minimum prerequisite grade point average of 3.0 (on a 4.0 scale).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 525</td>
<td>Human Gross Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>KIN 526</td>
<td>Introduction to Physical Therapy Practice and Examination Techniques</td>
<td>3</td>
</tr>
<tr>
<td>KIN 527</td>
<td>Kinesiology &amp; Biomechanics of Normal &amp; Abnormal Movement</td>
<td>4</td>
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</tbody>
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3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) taken within the last five years.
4. Completion of two, 20-hour-each observational experiences with a licensed physical therapist.
5. Two letters of recommendation, one of which must be an academic reference.
6. Responses to narrative essay questions.

**Selection**

Admission to the program is competitive. The program enrolls 26 students annually. Students are selected based on GPA, GRE (http://uwm.edu/graduateschool/admission/#gre) scores, two letters of recommendation (one academic reference, one personal reference), and narratives. The program will give preference during the selection process to candidates with prerequisite requirements completed at the time of application to the program.

**Credits and Courses**

The program is a sequenced, competency-based curriculum of 110 credits including 36 weeks of internship in the final year of the program. Students will enroll as full time students for each term of study (Summer, Fall, Spring) and will enroll during UWinteriM of their first year in the program. There is no part-time option for students, nor can courses be taken out of sequence in the DPT program.

**Additional Requirements**

**Major Professor as Advisor**

The Graduate School requires that each student have a major professor to advise, supervise and approve the program of study. Students are assigned faculty advisors in the DPT program. Faculty advisors are core
members of the DPT program faculty who are also licensed or eligible for licensure in the state of Wisconsin.

Pre-Professional Programs

According to U.S. News & World Report, 14 of the top 20 best jobs in the new decade are in health care professions. The College of Health Sciences (CHS) offers the largest number of health-related degree programs in Wisconsin, training our graduates to succeed in exciting high demand careers. Many health-related careers require advanced education beyond a bachelor's degree. While most graduate programs do not require students to have a specific undergraduate degree to apply, the CHS offers several high caliber pre-professional degree programs preparing students to be very competitive for graduate school applications. These quality undergraduate degree programs have been developed alongside the professional degree programs to provide a strong foundation to best prepare students for graduate school education. The pre-professional programs and program directors within CHS are:

Pre-Athletic Training (p. 658): Christy Greenleaf, Ph.D (https://uwm.edu/healthsciences/directory/greenleaf-christy/). Professor, BS Kinesiology Program Director

Pre-Audiology (p. 659): Barbara Pauloski, Ph.D., CCC-SLP (https://uwm.edu/healthsciences/directory/pauloski-barbara/) Associate Professor, Undergraduate Program Coordinator

Pre-Dietetics: (p. 660) Lori Klos, Ph.D., RD (https://uwm.edu/healthsciences/directory/klos-lori/) Associate Professor, Nutritional Sciences Program Director

Pre-Occupational Therapy (p. 661): Patricia Thomas, MPA, CTRS (https://uwm.edu/healthsciences/directory/thomas-patricia/) Clinical Associate Professor, Occupational Studies Coordinator

Pre-Physical Therapy (p. 662): Christy Greenleaf, Ph.D (https://uwm.edu/healthsciences/directory/greenleaf-christy/). Professor, BS Kinesiology Program Director

Pre-Speech-Language Pathology: (p. 663) Barbara Pauloski, Ph.D., CCC-SLP (https://uwm.edu/healthsciences/directory/pauloski-barbara/) Associate Professor, Undergraduate Program Coordinator

Please click on the specific Pre-Professional Program above for more information about the profession, curriculum, academic advising and more. If you have an interest in a specific health care professional program within the CHS, we strongly encourage you to sign up for your pre-professional designation (Pre-AT, Pre-Audiology, Pre-Dietetics, Pre-OT, Pre-PT, Pre-SLP). Speak with your advisor on how to request this pre-professional designation. Attaching this designation to your transcript will allow us to contact you regarding specific pre-professional activities such as information sessions, early admission programs, paid/unpaid experiences, student organizations and more. It will also allow you access to profession-specific advising to best prepare you for graduate school.

The pre-professional program specialized advisors within CHS are:

Pre-Occupational Therapy, Pre-Audiology, and Pre-Speech-Language Pathology:

Aggie Northrup, MS
414-229-2758

Pre-Athletic Training, Pre-Dietetics, and Pre-Physical Therapy:

Torry Rufer, MS
414-229-2758
tjufer@uwm.edu

Programs

- Pre-Athletic Training (p. 658)
- Pre-Audiology (p. 659)
- Pre-Dietetics (p. 660)
- Pre-Occupational Therapy (p. 661)
- Pre-Physical Therapy (p. 662)
- Pre-Speech-Language Pathology (p. 663)

Pre-Athletic Training

Athletic trainers are health care professionals who provide physically active people services such as injury/illness prevention, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic trainers care for people across the lifespan and activity levels, including youth athletes, professional athletes, performing artists, military or civil service personnel, and workers in physically demanding jobs. To become an athletic trainer students must complete a graduate degree in Athletic Training in a program accredited by the Commission on Accreditation of Athletic Training Education (https://caate.net/) (CAATE).

Undergraduate students can follow one of two paths to pursue Athletic Training at UWM:

Traditional Path

Students can complete an undergraduate degree and the prerequisite coursework for admission to the MS Athletic Training program (https://uwm.edu/healthsciences/academics/masters-athletic-training/). An undergraduate degree in Kinesiology (https://uwm.edu/healthsciences/academics/bachelors-kinesiology/), the science of human movement, is ideal preparation for training in athletic training. UWM Kinesiology students take coursework in biomechanics, exercise physiology, motor behavior and control, and psychosocial aspects of human movement, which serve as important foundations for advanced training in the UWM MSAT program. Students also can explore the practical application of the scientific principles of human movement in correlate and elective coursework.

The UWM Master of Science in Athletic Training (https://uwm.edu/healthsciences/academics/masters-athletic-training/) (MSAT) is a graduate level professional program that prepares students to become credentialed Athletic Trainers. The MSAT program regularly hosts information sessions for undergraduate students. Students can learn more about the prerequisites for admission to the UWM MSAT program in this document: MSAT application and admissions procedure (https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2016/03/MS-athletic-training-application-admission-procedure.pdf).

Accelerated Path

Students interested in a more direct path may apply to the Accelerated BS Kinesiology / MS Athletic Training program (https://uwm.edu/healthsciences/academics/accelerated-bachelors-kinesiology-masters-
I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation “Pre-Athletic Training” added to your academic record.

Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Athletic Training or the accelerated BS Kinesiology/MS Athletic Training are advised by Torry Rufer. Contact Torry at 414-229-2758 or tjrufer@uwm.edu.

When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester**
  - Schedule an appointment with your advisor in October or November.

- **Enrolling for fall semester**
  - Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

How can my advisor help me?

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- Explore your academic and career interests
- Plan the sequence of your courses
- Prepare for course enrollment
- Access tutoring and other academic support
- Identify opportunities for campus involvement
- Connect you to campus resources
- Plan for graduation

Contact Information

Pavilion, Suite 350
Phone: 414-229-3360
msat-info@uwm.edu

Pre-Audiology

Audiologists help people of all ages with hearing and balance disorders. When a person has problems with hearing or balance it can have a significant impact on their quality of life. Audiologists do many things including:

- Screening people to identify possible hearing disorders.
- Completing comprehensive hearing testing to diagnose hearing loss.
- Selecting and custom-fitting hearing aids and assistive technology.
- Advising people about how to treat and cope with ringing in their ears, also known as tinnitus.
- Evaluating and treating dizziness and balance problems.
- Helping people protect their hearing from the effects of loud noise.

Audiologists can work in many settings including doctor’s offices, hospitals, schools, rehabilitation centers, and private practices.


In Wisconsin, an AuD consortial program is offered by UW-Madison and UW-Stevens Point.
Before applying to graduate school, most programs require students to have either a bachelor’s degree in Communication Sciences and Disorders OR to complete prerequisite coursework in Communication Sciences and Disorders before applying. See the requirements tab (p. 660) for details.

For additional information please contact:

Barbara Pauloski, (https://uwm.edu/healthsciences/directory/pauloski-barbara/) Ph.D., CCC-SLP Associate Professor

Undergraduate Program Coordinator in Communication Sciences and Disorders

If you are interested in becoming an audiologist, it is strongly recommended that you complete a bachelor’s degree in Communication Sciences and Disorders (https://uwm.edu/healthsciences/academics/bachelors-communication-sciences-disorders/).

If you do not major in Communication Sciences and Disorders as an undergraduate, it is important to know what the requirements are for any graduate program you are considering. Many AuD programs accept students with degrees other than Communication Sciences and Disorders; however, it will usually require an additional year of graduate study to complete the program.

I’m a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (https://uwm.edu/healthsciences/students/new-student-orientation/) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation “Pre-Audiology” added to your academic record.

Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Audiology are advised by Aggie Northrup (https://uwm.edu/healthsciences/directory/northrup-aggie/). Contact Aggie at 414-229-2758 or via e-mail at witowski@uwm.edu.

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• Enrolling for fall semester?
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• Identify opportunities for campus involvement
• Connect you to campus resources
• Plan for graduation

Pre-Dietetics

To prepare for post-baccalaureate study in Dietetics, students choose our BS in Nutritional Sciences (p. 639). This four-year, science-intensive program will help you better understand the relationships among food, nutrients, eating behavior, wellness and human health. In addition to sharpening the scientific and technical knowledge and skills essential to nutritional sciences, you’ll develop critical thinking and professional communication skills through coursework in public speaking, statistics, business and professional writing, and courses that delve into the relevant research literature. You’ll graduate with a sound base in nutrition education, health promotion and disease prevention, which will have prepared you to join the workforce or continue on to graduate school.

For more information on UWM’s pre-Dietetics preparation, contact our Nutritional Sciences Program Director, Lori Klos. (https://uwm.edu/healthsciences/directory/klos-lori/)

The field of Nutritional Sciences is rooted in the study of natural sciences (e.g., chemistry and biology), social sciences (e.g., psychology and sociology) and health sciences (e.g., human growth and development). The B.S. Nutritional Sciences degree program provides students with a strong foundation in science in order to understand the relationships among food, nutrients, eating behavior, and human health.

Students should plan for four years of science-intensive study to complete the degree requirements:

• Biological Sciences (Foundations, Microbiology, and Anatomy & Physiology) - 16 Credits;
• Chemistry (General, Quantitative Analysis, Organic, and Biochemistry) - 21 Credits;
• Statistics - 3 credits;
• Nutritional Sciences - 37 credits across Introductory, Intermediate, and Advanced levels;
• Communication, Composition, and Professional Writing - 9 credits.

In addition, students complete the University’s General Education Requirements and have 16 credits of Electives to complete coursework required by ACEND accredited Dietetics programs. The complete Pre-Dietetics Curriculum is available on our website: https://uwm.edu/healthsciences/academics/bachelors-nutritional-sciences/.

I’m a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (https://uwm.edu/healthsciences/students/new-student-orientation/) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation “Pre-Dietetics” added to your academic record.
Who is my advisor?
Undergraduate students who have declared an intent to pursue Pre-Dietetics are advised by Torry Rufer (https://uwm.edu/healthsciences/directory/rufer-torry/). Contact Torry at 414-229-2758 or tjruper@uwm.edu.

When should I meet with my advisor?
Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- Enrolling for spring semester?
  Schedule an appointment with your advisor in October or November.
- Enrolling for fall semester?
  Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

How can my advisor help me?
CHS boasts professional academic advisors who understand the challenges of balancing academics, work, family, and the social aspects of college life. Advisors partner with you to:

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- Prepare for course enrollment
- Access tutoring and other academic support
- Identify opportunities for campus involvement
- Connect you to campus resources
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Pre-Occupational Therapy
According to The American Occupational Therapy Associations (AOTA (https://www.aota.org/)), occupational therapy helps people with an injury, illness, or disability learn or re-learn to do everyday activities. For adults, this could include activities like getting dressed, cooking, and driving. For children, this could include activities like learning or playing. Occupational Therapy got its name from its focus on helping patients with everyday activities—or “occupations”.

AOTA requires students pursuing a career in occupational therapy to enter the profession with a post-baccalaureate degree. The Occupational Therapy (OT) profession has a dual entry education program. Students interested in the profession may complete a master’s or doctorate level program. UWM offers a master’s in OT (MSOT (https://uwm.edu/healthsciences/academics/masters-occupational-therapy/)). Successful completion of an undergraduate degree is required for entry into a graduate program. Students may complete any undergraduate degree in preparation for a graduate level OT Program as long as all prerequisite courses and other requirements are met.

The UWM bachelor’s degree in Occupational Science and Technology (OST) (https://uwm.edu/healthsciences/academics/bachelors-occupational-studies/) prepares student exceptionally well for the UWM and other graduate level OT Programs. The foundation courses of the degree include the human anatomy, human physiology, psychology, statistics, and natural science with a lab courses that are common prerequisites for graduate OT Programs. The core courses of the OST degree allows students to delve into content in the areas of disability, assistive technology, health, medical conditions, and other contemporary issues in the area of health and disability. Within the curriculum, there is also a sequence of four research courses, which helps students gain knowledge and skills required for graduate level research.

The OST degree has three tracks to allow focused study. All tracks help students to work in the area of disability. The Disability and Occupation track and the Applications of Assistive Technology track are ideal for students interested in OT graduate education.

Paid and unpaid experience working with individuals with a disability, shadow experiences with OTs in different settings, and a strong personal statement are also often requirements for application to different graduate OT Programs. It is important to work with the Pre-Occupational Therapy (Pre-OT) advisor Aggie Northrup, MS (https://uwm.edu/healthsciences/directory/northrup-aggie/) beginning in freshman year or upon entry to the OST Degree (or other degree) Program in order to plan all needed activities into your college career. Having the Pre-OT designation on your transcript record will allow you access to key information about UWM OT Program information sessions, assistance with your application, student organizations, and more.

Requirements
The UWM Occupational Therapy (OT) Program’s vision is to be a leader in accessibility and inclusivity recognized worldwide by our academic peers, field practitioners, alumni, present and future students, those they serve, and the public. Students from diverse backgrounds are encouraged to apply to the program. UWM’s OT Program is one of the largest in Wisconsin. As the only public OT Program in the Greater Milwaukee area, we offer a top-notch academic experience at a fraction of the cost of private schools. You may find the UWM OT Program admission requirements on the College of Health Sciences Occupational Therapy MS (p. 648) catalog page.

Successful completion of UWM’s Bachelor of Science Degree in Occupational Science and Technology (OST) prepares you extremely well for graduate education in Occupational Therapy (OT). Courses cover topics in the areas of disability, assistive technology and universal design, disability and occupation, and much more. Please see the Sample 4 Year Plan for the Disability and Occupation Track (https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2017/12/BS-OS-disability-and-occupation-track-4-year-plan.pdf) or the Applications of Assistive Technology Track (https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2017/12/BS-OS-applications-of-disability-track-4-year-plan.pdf) of the OST degree. For more information about the BS in Occupational Science and Technology, you may wish to contact Patricia Thomas, MPA, CTRS (https://uwm.edu/healthsciences/directory/thomas-patricia/), OST Program Director. Please note, completion of the OST degree does not guarantee admission to UWM’s MSOT program.

It is important to note while admission to an OT program is competitive, there are many individuals and resources available at UWM to help you prepare a quality application. UWM's Student Success Center offers supplemental instruction and tutoring. The Writing Center offers one on one sessions. The Career Planning and Resource Center offers assistance with resumes and securing paid and unpaid experiences in the area of disability, rehabilitation, and OT. The Norris Center provides on campus health and mental health services. Many of the instructors who teach in the OST degree have a background in rehabilitation,
disability, and/or health. One of the best resources for success is the Pre-Occupational Therapy Advisor. It is important to work with Aggie Northrup (https://uwm.edu/healthsciences/directory/northrup-aggie/), the Pre-OT Advisor, as early in your undergraduate career as possible. For more information about Pre-OT Advising, please contact the Office of Student Affairs at 414-229-2758.

I’m a new student. How do I start?
You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (https://uwm.edu/healthsciences/students/new-student-orientation/) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation “Pre-Occupational Therapy” added to your academic record.

Who is my advisor?
Undergraduate students who have declared an intent to pursue Pre-Occupational Therapy are advised by Aggie Northrup (https://uwm.edu/healthsciences/directory/northrup-aggie/). Contact Aggie at 414-229-2758 or withowski@uwm.edu (witowski@uwm.edu).

When should I meet with my advisor?
Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

• Enrolling for spring semester?
  Schedule an appointment with your advisor in October or November.
• Enrolling for fall semester?
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How can my advisor help me?
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• Connect you to campus resources
• Plan for graduation

Pre-Physical Therapy

Students Interested in Physical Therapy
Physical therapy is an integral and unique component of the healthcare system. As a health profession, physical therapy focuses on the neuromuscular, musculoskeletal, integumentary, and cardiopulmonary systems of the human body as they relate to human motion and function. Human movement and the ability to interact physically with one's environment are essential components of physical, emotional, and social well-being. The physical therapist is dedicated to promoting health, preventing disease, improving quality of life, and rehabilitating individuals disabled by injury or disease.

To practice as a Physical Therapist, the American Physical Therapy Association (https://www.apta.org/) (APTA) requires that students complete a Doctor of Physical Therapy (DPT) degree through an accredited program and pass the national licensure examination. Students should first complete a bachelor’s degree and meet the prerequisites for admission to a DPT program. Information about applying to DPT programs can be found in the Requirements (p. 662) tab. The UWM DPT (https://uwm.edu/healthsciences/academics/doctoral-physical-therapy/) program hosts regular information sessions for undergraduate students. The DPT program is a three-year professional doctorate program beyond the bachelors degree.

An undergraduate degree in Kinesiology (https://uwm.edu/healthsciences/academics/bachelors-kinesiology/), the science of human movement, is ideal preparation for training in physical therapy. All UWM DPT prerequisites are included in the course of study. Kinesiology students take coursework in biomechanics, exercise physiology, motor behavior and control, and psychosocial aspects of human movement, which serve as important foundations for advanced training in a DPT program. Students can also explore the practical application of the scientific principles of human movement in correlate and elective coursework.

Inquiries about the DPT program itself should be sent to pt-program@uwm.edu.

Christy Greenleaf (https://uwm.edu/healthsciences/directory/greenleaf-christy/), PhD, Program Director, Kinesiology Undergraduate Program
Wendy Huddleston (https://uwm.edu/healthsciences/directory/huddleston-wendy/), PT, PhD, Program Director, Doctor of Physical Therapy

Admission to a DPT program is competitive. As with most DPT programs in the country, application to the UWM DPT program occurs through PTCA (http://www.ptcas.org/home.aspx), which is a centralized admissions system. Completion of UWM’s Kinesiology Bachelor of Science degree (https://uwm.edu/healthsciences/academics/bachelors-kinesiology/) is good preparation but does not guarantee admission to UWM’s DPT program. Also, be aware of the admission requirements for each individual DPT program as they do vary. Information about preparing for DPT is available in this document: Preparing to Apply for Admission to a Physical Therapy Program (http://uwm.edu/healthsciences/wp-content/uploads/sites/129/2015/06/BS-Kinesiology-Pre-PT-handout.pdf).

UWM DPT application requirements include:

• Completion of an undergraduate degree from an accredited institution with an overall cumulative grade point average above 3.0 (on a 4.0 scale)
• Completion of 10 prerequisite courses with a minimum prerequisite grade point average above 3.0 (on 4.0 scale)
  • Refer to DPT program website (https://uwm.edu/healthsciences/academics/doctoral-physical-therapy/) for list of prerequisite courses
• GRE scores (taken within the last five years)
• Completion of at least 40 total hours of clinical observation experiences in both inpatient and outpatient settings under the supervision of a licensed physical therapist
• Two letters of recommendation (one academic)
• Responses to narrative essay questions

I’m a new student. How do I start?
You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation “Pre-Physical Therapy” added to your academic record.

Who is my advisor?
Undergraduate students who have declared an intent to pursue Pre-Physical Therapy are advised by Torry Rufer (https://uwm.edu/healthsciences/directory/rufer-torry/). Contact Torry at 414-229-2758 or tjrufer@uwm.edu.

When should I meet with my advisor?
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Pre-Speech-Language Pathology
Speech-Language Pathologists (SLPs) help people of all ages with communication and swallowing problems. Problems with communication and swallowing can have a significant impact on people’s quality of life. SLPs work to prevent, assess, diagnose, and treat a range of problems. These include problems with:

• Speech sounds, or how we say sounds and put sounds together into words. Other words for these problems are articulation or phonological disorders, apraxia of speech, or dysarthria.
• Language is how well we understand what we hear or read and how we use words to tell others what we are thinking. In adults, this problem may be called aphasia.
• Literacy is how well we read and write. People with speech and language disorders may also have trouble reading, spelling, and writing.
• Social communication refers to how well we follow rules, like taking turns, how to talk to different people, or how close to stand to someone when talking. This is also called pragmatics.
• Voice, or how our voices sound. We may sound hoarse, lose our voices easily, talk too loudly or through our noses, or be unable to make sound.
• Fluency is how well speech flows. Problems with fluency are known as stuttering. Someone who stutters may repeat sounds, like t-t-t-table, use "um" or "uh", or pause a lot when talking. Many young children will go through a time when they stutter, but most outgrow it.
• Cognitive-communication refers to how well our minds work. Problems in this area may involve memory, attention, problem-solving, organization, and other thinking skills.
• Feeding and swallowing or how well we chew and swallow food and liquid. A swallowing disorder may lead to poor nutrition, weight loss, and other health problems. This is also called dysphagia.

Speech-Language Pathologists can work in many settings including hospitals, schools, rehabilitation centers, and private practices.


Before applying to graduate school, most programs require students to have either a bachelor’s degree in Communication Sciences and Disorders OR to complete pre-requisite coursework in Communication Sciences and Disorders before applying. See the requirements (p. 663) tab for details.

For additional information please contact:
Barbara Pauloski, Ph.D., CCC-SLP (https://uwm.edu/healthsciences/directory/pauloski-barbara/)
Associate Professor, Undergraduate Program Coordinator

Students interested in becoming speech-language pathologists may choose to complete a bachelor’s degree in Communication Sciences and Disorders (https://uwm.edu/healthsciences/academics/bachelors-communication-sciences-disorders/).

Sometimes people don't decide to become a speech-language pathologist until they have already completed (or almost completed) a bachelor’s degree in another area. If that is the case, it is suggested that you take the prerequisite courses listed below. It is important to check the requirements for any program before you apply to graduate school. For the requirements for applying to UWM's graduate program, check out the FAQs on our program website (https://uwm.edu/healthsciences/academics/masters-communication-sciences-disorders/).
• English Phonetics (COMSDIS 230)
• Anatomy & Physiology of the Speech and Hearing Mechanism (COMSDIS 220)
• Normal Language Development (COMSDIS 240)
• Speech Science (COMSDIS 480)
• Hearing Science (COMSDIS 380)
• Introduction to Audiology (COMSDIS 470)
• Aural Rehabilitation (COMSDIS 490)
• 25 guided hours of clinical observation (COMSDIS 350 & COMSDIS 351)
• Statistics (KIN 270)
• Physics or Chemistry
• Human or Animal Biology
• Psychology or Sociology

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Who is my advisor?
Undergraduate students who have declared an intent to pursue Pre-Speech-Language Pathology are advised by Aggie Northrup (https://uwm.edu/healthsciences/directory/northrup-aggie/). Contact Aggie at 414-229-2758 or via e-mail at witowski@uwm.edu.

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• Access tutoring and other academic support
• Identify opportunities for campus involvement
INFORMATION STUDIES
(SCHOOL OF)

The School of Information Studies offers a Bachelor of Science in Information Science and Technology (BSIST), an undergraduate minor in Information Science and Technology (IST), a Master of Library and Information Science (MLIS), a Master of Science in Information Science & Technology (MSIST), a Certificate of Advanced Studies in Archives and Records Administration, a Certificate of Advanced Studies in Digital Libraries, and a PhD in Information Studies.

Bachelor of Science in Information Science & Technology (BSIST)

The Bachelor of Science in Information Science and Technology (BSIST) combines core IT skills like front-end web design, programming and project management, with electives that you choose. The only degree of its kind in the UW System, the BSIST degree will set you apart from the competition.

Master of Library and Information Science (MLIS)

The Master of Library & Information Science (MLIS) program, accredited by the American Library Association since 1976, prepares librarians and information professionals to manage change in an urbanized, technologically oriented and knowledge-based society. Its systematic course of study enables individuals with a strong service orientation to apply principles of library and information science, to use current methods and tools, and to recognize the value of research.

Master of Science in Information Science & Technology (MSIST)

The Master of Science in Information Science and Technology is a professional graduate degree program for those who seek advanced training to meet the ever-increasing need for information technology (IT) professionals.

Doctor of Philosophy in Information Studies (PhD)

The Doctor of Philosophy in Information Studies prepares graduates for academic and professional careers where an in-depth knowledge of research processes and evaluation is needed. The program emphasizes the study of the representation, storage, retrieval, use, and impact of information resources on society. Graduates will contribute to the knowledge base of the discipline and will take on leadership roles as scholars and administrators in the discipline and the profession.

For information on SOIS’s degree programs please see the SOIS website at uwm.edu/informationstudies (https://uwm.edu/informationstudies/).

Graduate

- Information Science and Technology, MS (p. 671)
- Information Science and Technology, MS/Library and Information Science, MLIS (p. 673)
- Library and Information Science, MLIS (p. 677)
- Library and Information Science, MLIS/Anthropology, MS (p. 679)
- Library and Information Science, MLIS/Art History, MA (p. 681)
- Library and Information Science, MLIS/English, MA (p. 682)
- Library and Information Science, MLIS/Geography, MA (p. 684)
- Library and Information Science, MLIS/Health Care Informatics, MS (p. 685)
- Library and Information Science, MLIS/History, MA (p. 686)
- Library and Information Science, MLIS/Language, Literature, and Translation, MA (p. 688)
- Library and Information Science, MLIS/Music, MM (p. 688)
- Library and Information Science, MLIS/Translation and Interpreting Studies, MA (p. 690)
- Library and Information Science, MLIS/Urban Studies, MS (p. 691)
- Library and Information Science, MLIS/Women's and Gender Studies, MA (p. 692)
- Library and Information Science, MLIS: Archival Studies (p. 692)
- Library and Information Science, MLIS: Information Organization (p. 695)
- Library and Information Science, MLIS: Information Technology (p. 697)
- Library and Information Science, MLIS: Public Library (p. 699)

Doctoral

- Information Studies, PhD (p. 674)

Certificates of Advanced Study

- Advanced Study in Archives and Records Administration, Graduate Certificate (p. 667)
- Advanced Study in Digital Libraries, Graduate Certificate (p. 667)

Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Administration

Dean's Office
Tomas Lipinski
Dean and Professor

Karen Kroe
Interim Assistant Dean (UBR)
**Student Services**

**Tobiah Deutsch**  
Senior Academic Advisor

**Maggie Flath**  
Associate Advisor

**Angela Sadowsky**  
Senior Academic Advisor

**Julie Walker**  
Alumni & Career Services Advisor

**Brian Williams**  
Administrative Services

**Laura Meyer**  
Business Office Assistant

**Rebecca Hall**  
Web Development & Marketing

**Claire Schultz**  
Marketing

**Zach Price**  
IT Coordinator

**Jim Schultz**  
Systems Administrator

---

**Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Mohammed Aman</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Johannes Britz</td>
<td>Provost, Professor</td>
<td>DD, PhD</td>
<td>University of Pretoria, South Africa</td>
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<tr>
<td>Wonchan Choi</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Florida State University</td>
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<tr>
<td>J. Dietenberger</td>
<td>Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Alexandra Dimitroff</td>
<td>Associate Professor</td>
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<td>University of British Columbia</td>
<td></td>
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<tr>
<td>Donald Force</td>
<td>Associate Professor</td>
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<td>Marquette University</td>
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<tr>
<td>Matt Friedel</td>
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<td>MBA</td>
<td>Drexel University</td>
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<tr>
<td>Maria Haigh</td>
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<tr>
<td>Shaun Hayes</td>
<td>Archives Program Specialist</td>
<td>MLIS</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Susan Hersh</td>
<td>Senior Lecturer/ School Library Media</td>
<td>MLIS</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Adam Hudson</td>
<td>Senior Lecturer/Director Nonprof-IT</td>
<td>MLIS</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Margaret Kipp</td>
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<tr>
<td>Nadine Kozak</td>
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<tr>
<td>Joyce Latham</td>
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<tr>
<td>Hur-Li Lee</td>
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<tr>
<td>Tomas Lipinski</td>
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<td>PhD</td>
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<tr>
<td>Steven J. Miller</td>
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<td>Xiangming Mu</td>
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<tr>
<td>Hope Olson</td>
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<td>Minsook Park</td>
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<td>Wilhelm Peekhaus</td>
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<td>Abigail Phillips</td>
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<tr>
<td>Jacques du Plessis</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Utah State University</td>
<td></td>
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<tr>
<td>Shana Poneles</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Pretoria, South Africa</td>
<td></td>
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</tr>
<tr>
<td>Khaled Sabha</td>
<td>Senior Lecturer</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Betsy Schoeller</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
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<tr>
<td>Lyndsay Smanz</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Richard Smiraglia</td>
<td>Professor</td>
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<td>University of Chicago</td>
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<tr>
<td>James Sweetland</td>
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<tr>
<td>Kevin Trainor</td>
<td>Senior Lecturer</td>
<td>MBA</td>
<td>University of Chicago</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Advanced Study in Archives and Records Administration, Graduate Certificate

The Certificate of Advanced Study (CAS) in Archives and Records Administration is designed to help working professionals to update their knowledge in core areas of their responsibilities or to develop another specialty in a library-information area. It will enable students to either alter the direction of a career path or to enrich, update, and strengthen their skills and their knowledge of their field.

Admission Requirements

Application
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
A Master of Library and Information Science degree or a master’s degree in a closely related field such as computer science, educational technology, or history with a minimum of a 3.0 grade point average is required for admission.

Credits and Courses
The CAS candidate will complete 15 credits of coursework, planned in conjunction with his or her advisor, and approved by the Dean of the School of Information Studies as an individually designed program suited for the needs and professional objectives of the student.

A minimum of 12 credits must be taken in the School of Information Studies. Up to 3 credits may be taken in another school or department of UWM. Students may obtain up to three credits in independent study which is included as a part of the total approved program.

• See the list of School of Information Studies (p. 1814) courses.

Additional Requirements

Transfer Credit
No credits may be taken at an institution other than UWM.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Advanced Study in Digital Libraries, Graduate Certificate

The Certificate of Advanced Study (CAS) in Digital Libraries is designed to help working professionals update their knowledge and develop specialty
relating to the acquisition, organization and maintenance of digital content, virtual collections and services. It will enable students to either alter the direction of a career path or to enrich, update, and strengthen their skills and their knowledge of their field.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Admission**

A master of library and information science degree or a master’s degree in a closely related field such as computer science or educational technology with a minimum of a 3.0 grade point average is required for admission.

**Credits and Courses**

The CAS candidate will complete 15 credits of coursework, planned in conjunction with his or her advisor, and approved by the Dean of the School of Information Studies as an individually designed program suited for the needs and professional objectives of the student.

A minimum of 12 credits must be taken in the School of Information Studies.

No thesis is required, but students may obtain up to 3 credits in independent research which is included as a part of the total approved program.

- See the list of School of Information Studies (p. 1814) courses.

**Additional Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Information Science and Technology, BS**

Information science, on which the Information Science and Technology program is based, is the study of the organization, storage, retrieval, dissemination, and use of information. Information technology (IT) is the collection of tools that make it possible to access and use information. Some graduates will go directly into jobs in business and industry sectors that rely heavily on information as a raw material or as a product. Other graduates may go on to graduate study in library and information science, information management, computer science, or telecommunications.

**Career Opportunities**

The Bachelor of Science in Information Science and Technology will give students a head start on any number of careers in the information industry.

- Information Architect
- Business Information Coordinator
- Network Manager
- IT Consultant
- Web Designer
- Technology Trainer
- Multimedia Specialist
- Human-Computer Interface Designer
- Software/Systems Developer
• Technical Writer
• Database Developer
• Digital Library Specialist
• E-Commerce Web Administrator

Experiential Learning
Becoming a leader in IT means immersing yourself in the tools and technologies of the profession. SOIS provides students with valuable experiential learning opportunities through the Nonprof-IT program. The mission of the Nonprof-IT program is to empower local nonprofit organizations with comprehensive information technology support by creating internship opportunities for UW-Milwaukee students. UWM students gain real world experience working on project teams, providing technology solutions, and receive credits toward graduation while developing a passion for service. Learn more about this opportunity here: https://uwm.edu/informationstudies/nonprofit/.

BSIST Mission
The mission of the Bachelor of Science in Information Science and Technology (BSIST) program is to prepare students – equipped with technical, interpersonal, and ethical proficiencies – for careers in the information professions who will design, build, and support user-focused information technology solutions to meet a diverse set of needs.

BSIST Learning Outcomes
Graduates of the Bachelor of Science in Information Science and Technology (BSIST) program will have the ability to:

1. Analyze complex information and technology needs, and to apply principles of information science and other relevant disciplines to identify and implement solutions.
2. Design, implement, evaluate, and administer information systems to meet a given set of requirements – including user and organizational needs – in diverse environments.
3. Communicate effectively in a variety of professional contexts.
4. Function effectively as a member or leader of a team engaged in the design, implementation, and evaluation information technology solutions.
5. Recognize organizational and social responsibilities as information professionals and make informed judgments based on legal and ethical principles.

[Syllabi for all BSIST courses – both core and electives – should specify which of the learning outcomes will be achieved by the end of the course.]

Approved by BSIST Curriculum Committee: March 2, 2018

Related Area of Study
Each student will work with his/her advisor to select general electives, including related areas of study that are appropriate to his/her career goals and to complete the 120 total credit requirements for the BSIST degree. Because of its interdisciplinary and cross-functional nature, the BSIST program allows students to apply the study of the concepts and tools of information science, information architecture, and information technology to one or more related areas of study. The related area of study is a set of courses outside of the BSIST major, normally a minor or certificate in another field of study, typically including 18-22 credits. In some cases, students may choose to study two related areas as part of their BSIST program.

Related Areas of Study Selected List: Computer Science; Health Care Administration; Art & Design; General Business; Library & Information Science; Philosophy; Global Studies; Intelligent Systems; Communication; Digital Arts & Culture; Mass Communication & Journalism

With the help of their advisor, students create and customize their own related area of study. This may be credit-bearing courses that students will take to prepare for certification examinations such as Microsoft certifications, CISCO, etc., or a customized selection of courses chosen by students that will sharpen their skills in one or more selected areas of study.

Completing the Degree
The BSIST degree includes a total of 120 credits as follows:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Area I: UWM Distribution Requirements</td>
<td>General Education Requirements (GER) ¹</td>
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<tr>
<td>Area II: Major Requirements</td>
<td>INFOST 110 Introduction to Information Science and Technology</td>
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<td>Area III: Information Studies Electives</td>
<td>INFOST 240 Web Design I</td>
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<tr>
<td>Area IV: BSIST Cross-functional Electives</td>
<td>INFOST 310 Human Factors in Information Seeking and Use</td>
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<td>Area V: General Electives</td>
<td>INFOST 315 Knowledge Organization for Information Science and Technology</td>
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<td>Area III: Information Studies Electives</td>
<td>INFOST 340 Introduction to Systems Analysis</td>
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<td>Area IV: BSIST Cross-functional Electives</td>
<td>INFOST 350 Introduction to Application Development</td>
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<tr>
<td>Area V: General Electives</td>
<td>INFOST 410 Database Information Retrieval Systems</td>
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<tr>
<td>Area III: Information Studies Electives</td>
<td>INFOST 440 Web Application Development</td>
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<tr>
<td>Area IV: BSIST Cross-functional Electives</td>
<td>INFOST 490 Senior Capstone</td>
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<tr>
<td>Area I: UWM Distribution Requirements</td>
<td>Select five additional Information Studies courses at the 300, 400, 500, or 600 level or equivalent coursework</td>
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<td>Area IV: BSIST Cross-functional Electives</td>
<td>Select 15 credits</td>
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<td>Area V: General Electives</td>
<td>Select 42 General Electives, including Associate Area(s) of Study</td>
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</table>

¹ Learn more about the General Education Requirements (p. 29).
To continue and graduate in the BSIST program, each student must maintain a grade point average of at least 2.5 in the major and a cumulative grade point average of at least 2.0 on all credits counted toward the degree.

Students who have previously completed a bachelor’s degree may be eligible to earn a second bachelor’s degree in Information Science and Technology by completing 36 Information Studies (INFOST) credits in consultation with a BSIST advisor.

Four-Year Graduation Guarantee
If a student satisfies all the obligations described in the Four-Year Graduation Guarantee, the student will be able to complete an undergraduate degree within four years. If the undergraduate degree completion in four years is delayed by the unavailability of courses, then UWM will relieve the student of the financial tuition burden for courses still required for graduation.

IST Core Competencies
The successful BSIST student will demonstrate understanding of the following:

- theoretical nature of information science and information technologies;
- organization and architecture of information based on understanding of the context, the content, and the user needs;
- user-centered information system and service development;
- information storage and retrieval systems;
- management of information, including the processes to enable the flow of information; and
- use of information and communication technology for managing and organizing information and content.

Admission to the BSIST Program
Standard UWM admission policies for freshmen and transfer students apply. Students may begin the program as freshmen or after completing several semesters as undeclared or other majors. Students may begin as transfer students from another accredited college or university or as students returning to get a second degree.

In addition to being available during standard class times, the BSIST degree is available fully online to serve students both on and off campus.

Entrance Guidelines
Students who meet the standard University admission requirements are admissible to the School of Information Studies. The same criteria for acceptance are applied to in-state and out-of-state students. For undergraduate admission requirements, see the Admission (p. 15) section of this catalog.

 Advising
Students accepted by UWM who declare an interest in the IST program will be assigned a SOIS advisor. Students are expected to work closely with their IST advisor to tailor a program of electives to best suit their interests and career goals. IST students may also wish to explore minors or certificates in related areas such as computer science or technical writing. For information on Academic Advising for IST majors, please visit the SOIS Academic Advising (http://uwm.edu/informationstudies/resources/advising/) page.

Career Services
Whether you are a recent graduate just starting your career or an alumni looking for a change, the School of Information Studies (SOIS) is committed to supporting students and alumni throughout their careers. Visit our career resources (http://uwm.edu/informationstudies/resources/career/) page for career related resources and join us throughout the year for career workshops and networking opportunities.

Honors in the Major
GPA of 3.500 or above in all Information Studies (INFOST) courses applied towards the Information Studies Core (Area II) and Upper Division (Area III) requirements. A minimum of 36 INFOST credits completed in residence are needed towards the Core and Upper Division requirements to be considered for Honors in the Major.

High Honors in the Major
GPA of 3.750 or above in all Information Studies (INFOST) courses applied towards the Information Studies Core (Area II) and Upper Division (Area III) requirements. A minimum of 36 INFOST credits completed in residence are needed towards the Core and Upper Division requirements to be considered for High Honors in the major.

Honors in the School of Information Studies
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Information Science and Technology, Minor
For undergraduate students in other degree programs outside the School of Information Studies, SOIS also offers an undergraduate minor in Information Science and Technology (IST).

Students who wish to become information and technology literate while pursuing studies in their major areas are candidates. For example, the minor is attractive to students majoring in the humanities, arts, and social sciences where the combination of their major field with the IST minor will help prepare students for careers in information-related work. Fields that combine well with the IST minor include English...
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(particularly Technical Writing), Modern Languages, Communication, Mass Communication, Psychology, Sociology, and the arts. It should also be of interest to students majoring in professional fields such as Computer Science and Business Administration where the courses from IST will complement their major.

Requirements

Fulfillment of the minor entails completion of 18 credits from the following list of courses:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required</td>
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<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

6 credits from the following IST Core options: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 240</td>
<td>Web Design I</td>
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</tr>
<tr>
<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 315</td>
<td>Knowledge Organization for Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 340</td>
<td>Introduction to Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 350</td>
<td>Introduction to Application Development</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 410</td>
<td>Database Information Retrieval Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 440</td>
<td>Web Application Development</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 490</td>
<td>Senior Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

9 credits: 9

9 additional credits to be taken from INFOST 300-level or above coursework

Total Credits 18

Information Science and Technology, MS

The Master of Science in Information Science and Technology (MSIST) is a professional graduate degree program for those who seek advanced training to meet the ever increasing need for information technology (IT) professionals. The degree will be composed of 36 credit hours and will supplement our Bachelor of Science in Information Science and Technology.

The MSIST degree will provide specific transcript designated Tracks to further enhance essential skills and knowledge in the following areas:

- **Data science**: Provides students with advanced knowledge and skills to manage data sets generated by applications.
- **Information security**: Focuses on techniques ensuring the security of all data captured, stored and analyzed through applications.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

- A resume.

Prerequisites

Preference will be given to those students who have a baccalaureate degree in information sciences, computer information systems, computer science, engineering, statistics, or a related field. Students with sufficient background gained through work experience or professional training in information technologies, such as networks, web services, and database development, will also be considered for admission to the program. Those who have neither of the aforementioned qualifications will be encouraged to take the following prerequisites, or their equivalents, before taking related courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 240</td>
<td>Web Design I</td>
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</tr>
<tr>
<td>INFOST 410</td>
<td>Database Information Retrieval Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 440</td>
<td>Web Application Development</td>
<td>3</td>
</tr>
</tbody>
</table>

If taken, these courses must have been completed within the last five years with a grade of B or better (B- not acceptable).

Credits and Courses

The program requires 36 graduate-level credits, including 15 credits of required coursework, competency requirement and either 18 or 21 credits of elective credit depending on whether competency is demonstrated through coursework or examination.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 582</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 583</td>
<td>Survey of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 701</td>
<td>Computing Fundamentals for IT Professionals</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 703</td>
<td>Software Development Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>Programming proficiency as demonstrated by one of the following with a “C” or better:</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>INFOST 350</td>
<td>Introduction to Application Development</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGT 744</td>
<td>R Programming for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 702</td>
<td>Software Development in Python</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 750</td>
<td>Problem Solving with Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>HCA 741</td>
<td>Essential Programming for Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>Programming Competency Examination</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>INFOST 790</td>
<td>Project Design, Implementation, and Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

**Core Courses**

INFOST 582 Introduction to Data Science
INFOST 583 Survey of Information Security
COMPST 701 Computing Fundamentals for IT Professionals
COMPST 703 Software Development Life Cycle

Programming proficiency as demonstrated by one of the following with a “C” or better:

INFOST 350 Introduction to Application Development
BUSMGT 744 R Programming for Business Analytics
COMPST 702 Software Development in Python
COMPST 750 Problem Solving with Object-Oriented Programming
HCA 741 Essential Programming for Health Informatics

Programming Competency Examination

INFOST 790 Project Design, Implementation, and Evaluation

Electives
18-21 credits of coursework from any INFOST course offerings or from any of the Tracks listed below. Number of credits is dependent on whether programming competency is demonstrated through coursework or examination.

**Electives**
Select 18 or 21 credits of elective credits depending on whether programming competency is demonstrated through coursework or examination. Electives can be used toward Tracks.

**Electives for the Information Security Track**
12 credits of coursework from any of the courses listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 547</td>
<td>User-Centered Interaction Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 584</td>
<td>Survey of Web and Mobile Content Development</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 660</td>
<td>Information Policy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 661</td>
<td>Information Ethics</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 695</td>
<td>Ethical Hacking I</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 697</td>
<td>Cisco Routing &amp; Switching I</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 784</td>
<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 743</td>
<td>Information Privacy, Security &amp; Continuity</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 750</td>
<td>Problem Solving with Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 751</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
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</tbody>
</table>

**Electives for the Data Science Track**
12 credits of coursework from any of the courses listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 660</td>
<td>Information Policy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 661</td>
<td>Information Ethics</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 687</td>
<td>Data Analysis for Data Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
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</tbody>
</table>

**Electives for the Generalist Track**

<table>
<thead>
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<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>INFOST 784</td>
<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 746</td>
<td>Topics in Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 754</td>
<td>Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 763</td>
<td>Marketing Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 769</td>
<td>Database Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 914</td>
<td>Advanced Multivariate Techniques in Management Research</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
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<tr>
<td>BUSMGMT 744</td>
<td>R Programming for Business Analytics</td>
<td>3</td>
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<tr>
<td>COMPSCI 423</td>
<td>Introduction to Natural Language Processing</td>
<td>3</td>
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<tr>
<td>COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td>3</td>
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<tr>
<td>COMPSCI 710</td>
<td>Artificial Intelligence</td>
<td>3</td>
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<tr>
<td>COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 702</td>
<td>Software Development in Python</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 750</td>
<td>Problem Solving with Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 751</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 790</td>
<td>Advanced Topics in Computer Studies:</td>
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<tr>
<td>ELECENG 711</td>
<td>Introduction to Machine Learning</td>
<td>3</td>
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<td>ELECENG 890</td>
<td>Special Topics:</td>
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<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
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<tr>
<td>HCA 741</td>
<td>Essential Programming for Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
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<table>
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<th>Code</th>
<th>Title</th>
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<tr>
<td>ART 302</td>
<td>Art and Design Workshop:</td>
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<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
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<tr>
<td>ART 412</td>
<td>Advanced Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 496</td>
<td>Sequence and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3-6</td>
</tr>
</tbody>
</table>
Additional Requirements

Time Limit
All degree requirements must be completed within seven years from the date of initial enrollment in the Master's program.

Information Science and Technology, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.

• The MLIS portion of the coordinated degrees can be completed online.

• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MSIST/MS Information Science and Technology

A Master of Science in Information Science and Technology/Master of Library and Information Science program prepares students for positions in information technology in all types of libraries, 54 credits.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

Degree Requirements
Thirty hours will be required for the MLIS and twenty-four for the MSIST. SOIS reduces the MLIS by 6 credit hours of electives in consideration of another master's degree. The requirements for the MSIST are its 8 core courses for 24 hours. In sum, for 54 credit hours a student can complete both the MLIS and MSIST degrees. Degrees will be awarded simultaneously.

• See the MSIST (p. 671) page and the MLIS (http://uwm.edu/graduateschool/library-information-science/#page) page for more information.

Information Science and Technology MS

The program requires 36 graduate-level credits, including eight, 3-credit core courses and 12 credits of electives.

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 547</td>
<td>User-Centered Interaction Design</td>
<td>3</td>
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<tr>
<td>INFOST 582</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 583</td>
<td>Survey of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 584</td>
<td>Survey of Web and Mobile Content Development</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 701</td>
<td>Computing Fundamentals for IT Professionals</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 702</td>
<td>Software Development in Python</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 703</td>
<td>Software Development Life Cycle</td>
<td>3</td>
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<tr>
<td>Culminating Course</td>
<td></td>
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</table>

Electives
Select 12 credits from one of the transcript designated tracks below

Total Credits
36

Electives

Electives for the User Interaction & Human Computer Interaction Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
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<tr>
<td>ARCH 583</td>
<td>Emerging Digital Technology:</td>
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<tr>
<td>ARCH 782</td>
<td>Visualization 1</td>
<td>3</td>
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<tr>
<td>ARCH 783</td>
<td>Visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 412</td>
<td>Advanced Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 496</td>
<td>Sequence and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 929</td>
<td>Advanced Research-Design &amp; Digital Media</td>
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<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 522</td>
<td>Computer Game Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 713</td>
<td>Computer Vision</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 718</td>
<td>Advanced Computer Graphics: Modeling and Animation</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 737</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 743</td>
<td>Intelligent User Interfaces</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 747</td>
<td>Principles &amp; Practices of User Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 804</td>
<td>Advanced Remote Sensing (Previously numbered Geog 703)</td>
<td>3</td>
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</tbody>
</table>

**Electives for the Web and Mobile Application Design Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives for the Generalist Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12 credit hours with the faculty advisor’s guidance</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other MLIS courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives for the Information Security Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

**Important**

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

**Additional Requirements**

**Time Limit**

All degree requirements must be completed within seven years from the date of initial enrollment in the Master’s program.

**Information Studies, PhD**

**PhD Overview**

The Doctor of Philosophy in Information Studies prepares graduates for academic and professional careers where an in-depth knowledge of research processes and evaluation is needed. The program emphasizes
the study of the representation, storage, retrieval, use, and impact of information resources on society. Graduates will contribute to the knowledge base of the discipline and will take on leadership roles as scholars and administrators in the discipline and the profession.

**SOIS Overview**

**Related Certificates**

- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate/)
- Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate/)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Students begin the Information Studies doctoral program in the fall. Applications are accepted only for the fall semester.

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA in coursework for the Master's degree of at least 3.5 and an undergraduate GPA of 3.0. Applicants possessing a Master of Library and Information Science, or a master's degree in an allied discipline, are encouraged to apply.
- Submit verbal and quantitative scores for the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) taken within the past five years.
- Submit three letters of recommendation from qualified persons who can attest to the applicant's aptitude for doctoral study. At least one letter must be from an academic.
- Submit a writing sample that demonstrates the applicant's analytical and critical thinking skills. This may take the form of a published research paper, term paper from a previous graduate program, or earlier completed thesis.
- Applicants are encouraged to bring at least two years of relevant professional experience prior to entering the PhD program.

Applicants lacking the requisite GPA or academic area may be considered for admission on probation, and may be required to complete preparatory coursework.

**Credits and Courses**

Students will need to complete a minimum of 30 credits of approved coursework at the 700-level or higher.

Standard Graduate School minimum and maximum credit loads (http://uwm.edu/graduateschool/academic-policies-procedures/) apply. Full-time students are discouraged from taking more than 9 credits per semester.

Students, along with their major professor, should develop a plan for coursework that will prepare the student to carry out research in their areas of interest. Although an identified dissertation topic is not required upon entry to the program, students should begin to formulate ideas for potential topics as soon as possible thereafter.

### Code | Title | Credits
--- | --- | ---
INFOST 901 | Current Issues in Information Studies | 3
INFOST 910 | Doctoral Seminar in the Organization of Information | 3
INFOST 960 | Doctoral Seminar in Information Policy | 3
INFOST 970 | Doctoral Seminar in Information Retrieval | 3

**Research Methods and Design**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 903</td>
<td>Qualitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 904</td>
<td>Quantitative Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 3 additional credits in approved research methods coursework.
Distance students must also meet the UWM Graduate School residency requirements; physical residency in Milwaukee is not necessary.

**Preliminary Examinations / Preparatory Essays**
Students will be required to complete the doctoral preparatory essays toward the end of their coursework. The purpose of the essays will be to demonstrate the student’s mastery of coursework and relevant subject matter and the student’s qualifications to proceed with dissertation research. The essays will consist of two areas: one in the major area, and one to be determined by the major professor and the student, e.g., methodology. The essays will represent non-credit research papers based on topics assigned by the student's doctoral committee, which will consist of at least three members. The timeline for completion of the essays will be at the committee's discretion. Based on the committee's assessment of the essays, students will be recommended for advancement toward the PhD or academic dismissal from the program. If the essay results are found to be unsatisfactory, the student will have one opportunity to repeat the essay in a future semester after conferral with the major professor on how to prepare for the next attempt.

The preparatory essays must be successfully completed within four years of initial enrollment.

**Dissertation Proposal**
A doctoral committee of five faculty members will be in place by the time the student undertakes her/his dissertation proposal. The committee will consist of three members from the School of Information Studies, a faculty member in an allied area from outside the School, and a fifth member who may come from SOIS or another discipline. All doctoral committees shall be chaired by a major professor from the SOIS graduate faculty. Approval of the dissertation proposal, which ordinarily should occur within two semesters after successfully passing the preparatory essays, allows a student to proceed toward completion of the dissertation.

**Dissertation**
The candidate must write a dissertation which demonstrates her/his ability to formulate a research topic and pursue independent and original investigation that contributes to the knowledge base of the field.

**Dissertation Defense**
After submission of a reading copy of the dissertation to the student's doctoral committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate’s oral remarks, the dissertation committee will vote on passing the candidate’s dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

Approval of the dissertation by the student's doctoral committee satisfies a final requirement for the PhD degree in Information Studies from the UWM-SOIS.

**Time Limit**
All components of the PhD program must be completed within seven years of matriculation.

**Additional Information for Doctoral Students**
For additional information on policies and procedures for doctoral students, please see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.
Library and Information Science, MLIS

Related Certificates
- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate/)
- Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate/)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

MLIS Program
The purpose of the MLIS program is to prepare librarians and information professionals who are able to manage change in an urbanized, technologically oriented, and knowledge-based society. The MLIS program provides a systematic course of study which enables individuals with a strong service orientation to apply principles of library and information science, use current methods and tools, and recognize the value of research.

Students may elect to specialize according to the type of library or information service which best meets their needs: i.e., school, public, academic, or special; or to follow a more generalized approach. Concentrations in archival studies, information organization, information technology, and public libraries are available.

Graduates of the Master of Library and Information Science degree program are expected to demonstrate the following competencies:

1. To apply scientific principles in developing and managing information resources designed to meet user needs and interests.
2. To analyze, describe, and organize resources for effective and efficient retrieval and dissemination of information.
3. To utilize knowledge of information sources, services, and systems to meet the informational needs of users.
4. To apply management principles in planning, developing, marketing, and evaluating library and information services.
5. To work in specialized areas of library and information service, utilizing knowledge obtained from concentrations within the School and in other disciplines.
6. To build upon current knowledge of information and communication theories and technologies in planning, design, development, and delivery of information services.

The master's degree program is designed to support each of these objectives with appropriate coursework and educational experiences.

The School of Information Studies offers students the opportunity to obtain certification from the Wisconsin Department of Public Instruction as library media specialists or school librarians. Students admitted to the Master of Library and Information Science degree program can incorporate in their degree program the courses for these licenses to the extent that these courses satisfy the degree requirements, either as required core courses or as electives. For additional information about these licenses and their relationship to the master's degree, consult the School Library Media Coordinator.

The advanced courses offered by the School of Information Studies may be selected on a non-degree basis by post-master’s students who wish to continue their professional education or special competence in some phase of urban library and information services. The School's graduate courses are also open to graduate students in other fields of study, provided that they have completed the appropriate basic courses (or their equivalent).

Coordinated Degree Programs
In cooperation with the Peck School of the Arts; the College of Health Sciences; and the College of Letters and Science, the School of Information Studies offers the following coordinated degree programs:

M.S./MLIS
A Master of Science in Anthropology/Master of Library and Information Science to prepare students for positions as curators of museum libraries and as information specialists and researchers for local history collections and state historical societies, 51 credits.

M.A./MLIS
A Master of Arts in English/Master of Library and Information Science program to prepare students for positions as humanities librarians and curators of special subject collections in the humanities, 51 credits.
M.A./MLIS
A Master of Arts in Geography/Master of Library and Information Science program to prepare students for positions as map librarians, 48 credits.

M.S./MLIS
A Master of Science in Health Care Informatics/Master of Library and Information Science program to prepare students for positions as clinical informationists, 56 credits.

M.A./MLIS
A Master of Arts in History/Master of Library and Information Science program to prepare students for positions as archivists, 48 credits.

MSIST/MLIS
A Master of Science in Information Science and Technology/Master of Library and Information Science program to prepare students for positions in information technology in all types of libraries, 54 credits.

MALLT/MLIS
A Master of Arts in Language, Literature, and Translation/Master of Library and Information Science program to prepare students for positions as librarians in a variety of libraries and curators of special subject collections, 51 credits.

M.M./MLIS
A Master of Music/Master of Library and Information Science program to prepare students for positions as music librarians. Students in the M.M. degree program will pursue a concentration in Music History and Literature, 54 credits.

M.S./MLIS
A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

M.A./MLIS
A Master of Arts in Women’s and Gender Studies/Master of Library and Information Science program to prepare students for positions as information specialists in institutions of higher learning, libraries, and research centers, 54 credits.

Prerequisite to the award of either degree in these coordinated programs is the simultaneous award of its counterpart degree. For additional information on these programs, see the Anthropology (http://uwm.edu/graduateschool/anthropology/), English (http://uwm.edu/graduateschool/english/), Language, Literature, and Translation (http://uwm.edu/graduateschool/language-literature-translation/), Geography (http://uwm.edu/graduateschool/geography/), Health Care Informatics (http://uwm.edu/graduateschool/health-care-informatics/), History (http://uwm.edu/graduateschool/history/), Music (http://uwm.edu/graduateschool/music/), Urban Studies (http://uwm.edu/graduateschool/urban-studies/), and Women’s and Gender Studies (http://uwm.edu/graduateschool/womens-studies/) sections of this website.

Admission Requirements
Application
An applicant must apply to both the Graduate School and the School of Information Studies.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS. The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UWM Graduate School, is at least 3.00, or who already hold another master’s degree or Ph.D., or the equivalent.

2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission/) section of this Web site.

Faculty Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master’s program. The name of the faculty mentor is included in the student’s letter of admission and may also be obtained from an academic advisor in the School of Information Studies.

Credits and Courses
The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master’s or doctoral degree in a field other than library science may have the library and information science master’s program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master’s degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.
The following are basic required courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

**Minimum Grade Requirement in the Required Courses**
The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

**Culminating Experience Requirement in Library and Information Science**
Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

**Thesis Option**
Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master’s degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master’s programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program’s thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master’s Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student’s thesis advisor, but is not required to do so. It is the student’s responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

**Library Media Certification Programs**
Requirements: 1902 License
The following SOIS courses are required for the MLIS with Library Media Certification in Wisconsin.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 520</td>
<td>Managing Library Collections</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 640</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 642</td>
<td>School Library Media Programs and Resources</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 644</td>
<td>Clinical Experience in School Libraries</td>
<td>2-3</td>
</tr>
<tr>
<td>INFOST 645</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 646</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 647</td>
<td>Library Services for Children and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(Cataloging for Small/School Libraries or equivalent)</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>36-37</td>
</tr>
</tbody>
</table>

This program will provide school library certification to those who hold a Wisconsin teaching license. Candidates who do not hold a teaching license must also complete post-baccalaureate education coursework and activities to earn the MLIS and school library certification. Students in states other than Wisconsin must consult with their own licensing agencies to determine whether working with our program will meet that state’s licensure requirements.

**Additional Requirements**

**Time Limit**
Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

**Library and Information Science, MLIS/Anthropology, MS**
In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees
concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MS Anthropology**

The MLIS/MS Anthropology Coordinated Degree Program (51 credits) prepares students for positions as curators of museum libraries; and as information specialists and researchers for local history collections and state historical societies.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

**Degree Requirements**

Students enrolled in this program concurrently pursue the MS degree in Anthropology (p. 735) (21 credits in Anthropology—9 fewer elective credits) and the MLIS degree (p. 677) (30 credits in SOIS). Candidates for the coordinated degree program will be expected to fulfill the degree requirements of both programs. Degrees will be awarded simultaneously.

**Credits and Courses**

Students in the Master’s degree program in Anthropology are required to take a minimum of 30 credits, some of which are obtained by taking required courses. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page.

**Archaeology Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Methods**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 501</td>
<td>Archaeology of Death</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 535</td>
<td>Analysis of Archaeological Ceramics</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 567</td>
<td>Topics in Advanced Research Design in Anthropology</td>
<td></td>
</tr>
</tbody>
</table>

Or an alternative approved by the advisor and the Director of Graduate Studies

**Advanced Seminar**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANTHRO 763</td>
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</table>

**Electives**

<table>
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<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>12</td>
</tr>
</tbody>
</table>

**Total Credits**

| 30      |

**Biological Anthropology Concentration**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Methods**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Course approved by the advisor and the Director of Graduate Studies

**Advanced Seminar**

Course approved by the advisor and the Director of Graduate Studies

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
</tr>
</tbody>
</table>

**Total Credits**

| 30      |

**Cultural Anthropology Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Methods**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
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</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
<td></td>
</tr>
</tbody>
</table>
ANTHRO 568  Introduction to Anthropological Statistics

**Advanced Seminar**

ANTHRO 940  Seminar in Problems in Cultural Anthropology  3

**Electives**

Select 12 credits  12

Total Credits  30

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the Ph.D. program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the Graduate School and a signed, unbound "hard" copy to the Department of Anthropology.

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses  18

Total Credits  30

**Library and Information Science, MLIS/Art History, MA**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.

- The MLIS portion of the coordinated degrees can be completed online.

- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

**MLIS/MA Art History**

The MLIS/MA Art History Coordinated Degree Program prepares students for positions as art librarians, as curators of rare books and special collections, and as archivists, registrars, and collections managers in art museums.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Art History MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

**Credits and Courses**

The MA in Art History normally has a minimum requirement of 30 credits from Art History courses. For the coordinated MA Art History/MLIS degree program, however, students can substitute 6 credits in Information Studies courses for 6 credits of Art History courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Art History courses as specified below.

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses  18

Total Credits  30

**Art History Courses**

Minimum degree requirement is 24 credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. To fulfill the Distribution Requirement, students must complete at least 3 credits in each of the following four areas 1) Ancient/Medieval, 2) Renaissance/
Baroque, 3) Modern/Contemporary, and 4) Non-Western. At least 6 of these credits must be fulfilled at the 700-level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 700</td>
<td>Proseminar in Art History (Must be taken in the student’s first fall semester)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 891</td>
<td>Art Museum Internship</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 990</td>
<td>Thesis Research</td>
<td>6</td>
</tr>
</tbody>
</table>

**Distribution Requirement**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Other MLIS courses</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Total Credits** 24

**Important**

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

**Additional Requirements**

**Thesis**

A thesis, on a subject selected in consultation with the advisor. This study must demonstrate the student’s ability to organize material and her/his familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

**Language Translation Exam**

The student must pass a language translation exam.

**Library and Information Science, MLIS/English, MA**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA English**

The MLIS/MA English Coordinated Degree Program prepares students for positions as humanities librarians.

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**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

**Requirements**

Students interested in the English MA/MLIS program are expected to follow all the requirements and standards as described in this section of the Catalog with the following exceptions: the 21 credits required for the MA in English in the coordinated degree program are to be taken within the Department. Courses in related areas must be approved by the Director of Graduate Studies in English. For more information on this program, see the Library and Information Science page.

**Credits and Courses**

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

**Other MLIS courses** 18

**Total Credits** 30

**Important**

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

**English Courses**

Students in the MA/MLIS program may subtract 9 elective credits from their chosen concentration below.

Students admitted to the master’s program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the five plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the Ph.D program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master’s level may be included in the 54 credits required for the Ph.D.

**Plan A (Literature and Cultural Theory)**

A minimum of 30 credits, including:
### Plan A (Literature)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 703</td>
<td>Introduction to Graduate Studies in Literature (must be taken in first semester)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in literature courses (at least 3 credits pre-1800)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 8 credits of electives</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
<td></td>
</tr>
</tbody>
</table>

1. Which may include up to 6 credits of ENGLISH 790.

**Additional Requirements**

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

### Plan B (Rhetoric and Composition)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td></td>
</tr>
<tr>
<td>Select 18 credits of electives</td>
<td>18</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
<td></td>
</tr>
</tbody>
</table>

1. Which may include up to 6 credits of ENGLISH 790.

**Additional Requirements**

- A final project, which shall be a research paper appropriate to the student's professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level); Research Methods

**Note:** Students who plan to apply to the Ph.D. program are advised to select 6 credits in literature or language courses as part of their electives.

### Plan C (Creative Writing)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)</td>
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<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Requirements**

- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student's literary background and interests.
Plan H (Media, Cinema, and Digital Studies)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in 700-level seminars in digital studies (theory, criticism, or writing) film and/or media</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
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</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Public and Professional Writing: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALT 740</td>
<td>Approaches to the Modern I</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALT 741</td>
<td>Approaches to the Modern II</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies: (Subtitle)</td>
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</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature: (Subtitle)</td>
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<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 700</td>
<td>Teaching Film Studies: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits of electives in courses numbered 700 and above</td>
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<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1. Which may include up to 6 credits of ENGLISH 790.

Additional Requirements

Major Professor as Advisor
The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The coordinator of the student's concentration serves as an initial advisor.

Final Project
A research paper or other project appropriate to the student's professional goals.

Oral Examination
Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

Regulations Concerning Final Projects and Oral Examinations
1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student's MA Committee. The project serves both as a concluding effort at the master's level and also as an indication of a student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be English Graduate Faculty. The MA Examining Committee admires the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master's level is applicable to the PhD 54 credit requirement.

4. The Examining Committee offers a recommendation regarding the student's qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student's academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the MA project and examination, see the English Graduate Program Handbook.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Library and Information Science, MLIS/Geography, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.
MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MA Geography

The MLIS/MA Geography Coordinated Degree Program prepares students for positions as map librarians. Graduates of the program are qualified to assume positions as curators and staff in map collections of universities, governmental agencies, and industry.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

The MA in Geography normally has a minimum requirement of 30 credits from regular geography courses (which includes 4 capstone/thesis credits). For the coordinated MA Geography/MLIS degree program, however, students can substitute 6 credits in information studies courses for 6 credits of geography. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Geography courses specified below.

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td></td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses

Total Credits 30

Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

Library and Information Science, MLIS/Health Care Informatics, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.

• The MLIS portion of the coordinated degrees can be completed online.

• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MS Health Care Informatics

The MLIS/MS Health Care Informatics Coordinated Degree Program is designed to provide students with theoretical and practical exposure to the evolving field of healthcare informatics as practiced in hospitals, clinics, professional offices, corporations, the government, the insurance industry, and higher education.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Students are admitted to both graduate programs separately and admission requirements (http://uwm.edu/graduateschool/
admission/) are consistent with those specified by the UWM Graduate School, the Department of Healthcare Informatics, and the MLIS program (http://uwm.edu/graduateschool/library-information-science/) of the School of Information Studies.

Credit and Courses

Students accepted into this MS/MLIS program complete the following courses:

<table>
<thead>
<tr>
<th>HealthCare Informatics</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 700</td>
<td></td>
<td>Introduction to Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 740</td>
<td></td>
<td>Information Technology Management Concepts</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 813</td>
<td></td>
<td>and Languages</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td></td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 541</td>
<td></td>
<td>Healthcare Information Systems Analysis and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Design</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 757</td>
<td>Data Base Organization and File Structure</td>
<td></td>
</tr>
<tr>
<td>HCA 542</td>
<td>Healthcare Database Design and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 748</td>
<td>Managing Information Technology Projects</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 814</td>
<td>Enterprise Knowledge &amp; Semantic Management</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 720</td>
<td>Computational Models of Decision Making</td>
<td></td>
</tr>
<tr>
<td>HCA 744</td>
<td>Text Retrieval and Its Applications in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Biomedicine (pending)</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>HCA 721</td>
<td>Health Information Technology Procurement</td>
<td>3</td>
</tr>
<tr>
<td>HCA 723</td>
<td>Health Care Systems Applications -</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Administrative and Clinical</td>
<td></td>
</tr>
<tr>
<td>HCA 890</td>
<td>Health Care Informatics Research and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>or HCA 891</td>
<td>Health Care Informatics Professional Project</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30

<table>
<thead>
<tr>
<th>Library and Information Science</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>INFOST 501</td>
<td>Foundations of Library and Information</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>INFOST 511</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INFOST 571</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>INFOST 799</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>INFOST 501</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select at least four of the following: 12-15

| INFOST 521 | Introduction to Reference Services and Resources |
| INFOST 661 | Information Ethics |
| INFOST 714 | Metadata |
| INFOST 791 | Topics in Library and Information Science: |
| INFOST 835 | Information Sources and Services in the Health Sciences |

Total Credits 27-30

Students also must pass a comprehensive examination, or submit and successfully defend a thesis. The thesis option requires additional credits.

• Minimum Credits for MS: 29
• Minimum MLIS Credits: 27
• Minimum Total Credits for the Program: 56

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Important

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

Additional Requirements

Time Limit

Students in the coordinated MS/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Library and Information Science, MLIS/History, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.

• The MLIS portion of the coordinated degrees can be completed online.

• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS
credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA History**
A Master of Arts in History/Master of Library and Information Science program to prepare students for positions as archivists, 54 credits.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Credits and Courses**

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other MLIS courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 752</td>
<td>Archival Outreach: Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 850</td>
<td>Seminar in Modern Archives Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**

30

**Important**

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

**History Courses**
Within the coordinated degree program, the minimum requirement for the MA in History is 30 graduate credits. Course distribution requirements are the same as those for General History Option A or Option B above, but the 3 elective credits for Option A and 6 of the elective credits for Option B can be selected from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712 or HIST 713</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 717</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia

Select 6 credits in two seminars

Select 6 credits in thesis

Select 9 credits in electives in consultation with the student’s advisor

**Total Credits**

30

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

**General History Option B: Non-Thesis Option**
Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712 or HIST 713</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 717</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia (800 numbers)

Select 6 credits in two seminars (900 numbers)

Select 15 credits in electives in consultation with the student’s advisor

**Total Credits**

30

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

**Academic Review and Comprehensive Examination Reading List**
Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.

**Additional Requirements**

**Comprehensive Examination**
The student must pass a written and oral comprehensive examination.

**Thesis (Option A)**
Not required, but with the approval of the Director of Graduate Studies in History, the student may substitute a thesis for the comprehensive examination requirement. MA/MLIS students who write a thesis are subject to the Academic Review and Thesis Prospectus requirements outlined above for Option A.

**Time Limit**
The student must complete all requirements for the coordinated degree within seven years of initial enrollment.
Library and Information Science, MLIS/Language, Literature, and Translation, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Credits and Courses

<table>
<thead>
<tr>
<th>Basic Required MLIS Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
</tr>
<tr>
<td>INFOST 501</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td></td>
</tr>
<tr>
<td><strong>Other MLIS courses</strong></td>
<td>18</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

Note: The full requirements for MALLT concentrations appear below. Some electives are waived for the MLIS/MALLT program.

Linguistics Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 708</td>
<td>Proseminar in Linguistics</td>
<td>6</td>
</tr>
<tr>
<td>MALLT 706</td>
<td>Seminar in Foreign Language Methodology and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 800</td>
<td>Master’s Seminar in Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements

Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics 6
Select at least 15 graduate credits in Spanish 15
Select three courses in related areas to give the program breadth 9

Total Credits 30

Spanish and Hispanophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>Select three additional courses in Linguistics</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30

Students interested in the MALLT/MLIS program will be expected to follow all of the requirements and standards as described in this section of the Catalog. Nine of the 30 credits normally required for a MALLT degree will be satisfied by courses taken in SOIS. In the coordinated degree program, MALLT thesis option credits will be in addition to the 21 required MALLT credits. Courses in related areas must be approved by the Coordinator of MALLT.

• See the MALLT and MLIS (https://catalog.uwm.edu/information-studies/library-information-science-mlis/) pages for more information.

Library and Information Science, MLIS/Music, MM

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees
concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student's goals in the coordinated degree program.

**MLIS/MM Music (Music History and Literature concentration only)**

The coordinated degree program (54 credits) prepare students in the Music History and Literature concentration for positions as music librarians.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.**

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

**Credits and Courses**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

**Additional Requirements**

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History
may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 450</td>
<td>Introduction to Musicology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 452</td>
<td>Collegium Musicum (1 credit each for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 911</td>
<td>Seminar In Musicology I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music History</td>
<td>6</td>
</tr>
<tr>
<td>Other Areas of Music</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-30</td>
</tr>
<tr>
<td>3 credits of General Electives (UG or G)</td>
<td></td>
</tr>
<tr>
<td>30 credits in Library Science if M.M./MLIS major</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30-57

The program must also include:
- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses 18

Total Credits 30

**Important**

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

**Library and Information Science, MLIS/Translation and Interpreting Studies, MA**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

**Credits and Courses**

**Translation and Interpreting Studies Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 704 &amp; TRNSLTN 714</td>
<td>Introduction to Translation: Arabic to English and Advanced Translation: Arabic to English</td>
<td>6</td>
</tr>
<tr>
<td>TRNSLTN 706 &amp; TRNSLTN 716</td>
<td>Introduction to Translation: French to English and Seminar in Advanced Translation: French to English</td>
<td>6</td>
</tr>
</tbody>
</table>
TRNSLTN 708 & TRNSLTN 718 Introduction to Translation: German to English and Seminar in Advanced German Translation

TRNSLTN 719 & TRNSLTN 729 Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English

TRNSLTN 707 & TRNSLTN 717 Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English

Comprehensive Exam
Total Credits 21

<table>
<thead>
<tr>
<th>Basic Required MLIS Courses</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required MLIS Courses</td>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives | 18 |

The 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

Total Credits 30

**Library and Information Science, MLIS/Urban Studies, MS**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. **All degree requirements of each component must be satisfied.**
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MS Urban Studies**
A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Credits and Courses**
Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master’s thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

**Urban Studies**
The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

<table>
<thead>
<tr>
<th>Basic Required MLIS Courses</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

| Other MLIS courses | 18 |

Total Credits 30

**Important**
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.
Library and Information Science, 
MLIS/Women's and Gender Studies, 
MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA Women's and Gender Studies
The coordinated program is designed to provide students with theoretical and practical exposure to evolving information retrieval and organization, and the field of feminist research and scholarship.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Women's and Gender Studies MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

Credit and Courses
The MA in Women's and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women's and Gender Studies courses. For the coordinated MA WGS/MLIS degree program, however, students can substitute 6 credits in Information Studies for 6 credits of WGS courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in WGS courses as specified below.

Women's and Gender Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Feminist Epistemologies and Research Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one WGS G or U/G course

<table>
<thead>
<tr>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 elective credits in WGS or WGS cross-listed courses (not SOIS), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).</td>
</tr>
</tbody>
</table>

Total Credits
- 24

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

Library and Information Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 18 credits in consultation with a SOIS faculty advisor.

Total Credits
- 30

Total MLIS Credits: 30 (min of 33 with SOIS thesis option)

Total Credits for Coordinated Program: 54 (57 with SOIS thesis)

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

Additional Requirements
Time Limit
Students in the coordinated MA/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Library and Information Science, 
MLIS: Archival Studies

MLIS: Archives Concentration
Archival studies offers you the opportunity to investigate the processes that shape the historical record. By studying how records are selected
for preservation, arranged and described, and made accessible to the public, archives students have a unique opportunity to research a field that mixes history, ethics, technology and philosophy. Through this study, you are able to research the influences that help determine how society views itself.

The Archives Program provides a range of professional development opportunities, as well as alumni and other professional connections around the country in order to ensure that you are competitive in the job market and have a well-rounded view of the complex issues facing archives. Completion of this program provides you with a graduate degree that will help you gain employment at a variety of archives throughout the United States.

Related Certificates

- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate/)
- Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate/)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

An applicant must apply to both the Graduate School and the School of Information Studies.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS. The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UWM Graduate School, is at least 3.00, or who already hold another master's degree or Ph.D., or the equivalent.
2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission/) section of this Web site.

Faculty Mentor

Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master's program. The name of the faculty mentor is included in the student's letter of admission and may also be obtained from an academic advisor in the School of Information Studies.

Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such
equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

**Minimum Grade Requirement in the Required Courses**

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

**Culminating Experience Requirement in Library and Information Science**

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

**Thesis Option**

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master’s degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master’s programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program’s thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master’s Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student’s responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

**Archives Concentration**

Students pursuing the Archives Concentration must take 15 credits of coursework in archives as electives within the overall MLIS program. To pursue the Archival Studies Concentration students must be admitted into the MLIS program and must submit the Archival Studies Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

The Archival Studies concentration requires 15 credits of coursework planned in consultation with the student’s advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 640</td>
<td>Information Literacy Instruction</td>
<td></td>
</tr>
<tr>
<td>INFOST 655</td>
<td>Information and Records Management: Electronic Documents and Records Management</td>
<td></td>
</tr>
<tr>
<td>INFOST 682</td>
<td>Digital Libraries</td>
<td></td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
<td></td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td></td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td></td>
</tr>
<tr>
<td>INFOST 752</td>
<td>Archival Outreach: Programs and Services</td>
<td></td>
</tr>
<tr>
<td>INFOST 753</td>
<td>Preserving Information Media</td>
<td></td>
</tr>
<tr>
<td>INFOST 758</td>
<td>Technology Issues in Archives</td>
<td></td>
</tr>
<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
<td>1</td>
</tr>
</tbody>
</table>
Goals of the school are:

Studies is committed to excellence in instruction, research, and service.

To make significant contributions towards extending and enhancing the understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

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2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.

3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.

4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.

5. To promote a research orientation through participation in the Doctor of Philosophy degree program.

6. To contribute to the international knowledge base of library and information science through research and publication.

7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.

8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Related Certificates

- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate/)
- Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate/)

The School of Information Studies prepares students for careers in cataloging, indexing, metadata work, or archival organization in a wide variety of settings, including libraries, archives, museums, private corporations, government agencies, and other organizations, the Information Organization (IO) Concentration provides a way for you to formally focus your studies on information organization within the context of your MLIS degree program and its requirements. The Concentration includes a mixture of theoretical and practical knowledge and skills, and will be posted on your transcript upon degree conferral.

Additional Requirements

Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

Library and Information Science, MLIS: Information Organization Concentration

MLIS: Information Organization Concentration

Preparing students for careers in cataloging, indexing, metadata work, or archival organization in a wide variety of settings, including libraries, archives, museums, private corporations, government agencies, and other organizations, the Information Organization (IO) Concentration provides a way for you to formally focus your studies on information organization within the context of your MLIS degree program and its requirements. The Concentration includes a mixture of theoretical and practical knowledge and skills, and will be posted on your transcript upon degree conferral.

Related Certificates

- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate/)
- Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate/)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.

2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.

3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.

4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.

5. To promote a research orientation through participation in the Doctor of Philosophy degree program.

6. To contribute to the international knowledge base of library and information science through research and publication.

7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.

8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

An applicant must apply to both the Graduate School and the School of Information Studies.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS. The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UW Graduate School, is at least 3.00, or who already hold another master’s degree or Ph.D., or the equivalent.

2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis)
may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission/) section of this Web site.

Faculty Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master’s program. The name of the faculty mentor is included in the student’s letter of admission and may also be obtained from an academic advisor in the School of Information Studies.

Credits and Courses
The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master’s or doctoral degree in a field other than library science may have the library and information science master’s program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master’s degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

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Minimum Grade Requirement in the Required Courses
The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

Culminating Experience Requirement in Library and Information Science
Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

Thesis Option
Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master’s degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master’s programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program’s thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

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Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

Information Organization Concentration
Students pursuing the Information Organization Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program.

The Information Organization Concentration requires a minimum of 15 credits of coursework taken from the list of qualifying courses below. The student’s concentration program must be approved by the SOIS Information Organization Curriculum Coordinator. A fieldwork experience of 1-3 credits with a focus on information organization is required of students without practical experience.

Courses that qualify for the concentration are as follows:

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<td>Introduction to Data Science</td>
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<tr>
<td>INFOST 611</td>
<td>Cataloging for Small Libraries</td>
<td>1</td>
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**Admission Requirements**

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**Library and Information Science, MLIS: Information Technology**

**MLIS: Information Technology (IT) Concentration**

Emphasizing the use, implementation, management and evaluation of information technologies for a wide range of organizations, the IT concentration will prepare you to work in a diverse information technology landscape.

**Related Certificates**

- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate/)
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**INFOST 619**

Topics in Information Organization: (with an IO related topic) 1-3

**INFOST 712**

Resource Description for Library Catalogs 3

**INFOST 714**

Metadata 3

**INFOST 716**

Thesaurus Construction 3

**INFOST 717**

Information Architecture 3

**INFOST 719**

Advanced Topics in Information Organization (with an IO related topic. May be repeated with change in topic to 9 credits max.) 3

**INFOST 750**

Arrangement and Description in Archives (prereq: INFOST 650) 3

**INFOST 780**

XML for Libraries 3

**INFOST 785**

Database Management Systems for Information Professionals 3

**INFOST 898**

Master’s Thesis (with an IO topic, directed by an IO faculty member) 1-3

**INFOST 990**

Fieldwork in Library and Information Science Services (with a focus on IO. Prereqs: all INFOST core courses and relevant IO elective courses.) 1-3

or INFOST 759

Fieldwork in Archives and Manuscripts 1

1 Effective 11/11/2016, this course was replaced by INFOST 712 and INFOST 713. Students who have already completed INFOST 711 may continue to use it for the information organization concentration.

**Additional Requirements**

**Time Limit**

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.
The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master’s or doctoral degree in a field other than library science may have the library and information science master’s program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master’s degree in library and information science, but merely enable the student to avoid unnecessary repetition.

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**Information Technology (IT) Concentration**
Students pursuing the IT Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program. To pursue the IT Concentration students must be
of public libraries. The objective of the Public Library Concentration is to enable graduates to take strong leadership positions with sensitivity to community needs and the possibilities engendered by new media technologies.

Related Certificates
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<td>User-Centered Interaction Design</td>
<td>3</td>
</tr>
<tr>
<td>INFST 582</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>INFST 583</td>
<td>Survey of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>INFST 584</td>
<td>Survey of Web and Mobile Content Development</td>
<td>3</td>
</tr>
<tr>
<td>INFST 675</td>
<td>Information Technology and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>INFST 682</td>
<td>Digital Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>INFST 695</td>
<td>Ethical Hacking I</td>
<td>3</td>
</tr>
<tr>
<td>INFST 697</td>
<td>Cisco Routing &amp; Switching I</td>
<td>3</td>
</tr>
<tr>
<td>INFST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFST 774</td>
<td>Online Information Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFST 783</td>
<td>Information Storage and Retrieval</td>
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<td>Information Security Management</td>
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<td>INFST 785</td>
<td>Database Management Systems for Information Professionals</td>
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<td>INFST 786</td>
<td>Multimedia</td>
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<tr>
<td>INFST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>INFST 789</td>
<td>Electronic Networking and Information Services:</td>
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Additional Requirements

Time Limit
Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

Library and Information Science, MLIS: Public Library

MLIS: Public Library Concentration

See yourself leading an information revolution in public libraries? The Public Library Concentration prepares MLIS graduates to positively engage with the range of opportunities facing the post-modern public library: extended community involvement, incorporation of emerging technologies, and pro-active advocacy for service populations.

Public library leaders build vital, resilient communities through their understanding of user needs, community partnerships, access to information and library services, and the legal and financial frameworks of public libraries. The objective of the Public Library Concentration is...
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Application**
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decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student’s thesis advisor, but is not required to do so. It is the student’s responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

**Public Library Concentration**

Students pursuing the Public Library Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program. To pursue the Public Library Concentration students must be admitted into the MLIS program and must submit the Public Library Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

The Public Library Concentration requires 15 credits of coursework planned in consultation with the student’s advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 736</td>
<td>The Public Library</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 861</td>
<td>Seminar in Intellectual Freedom</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 864</td>
<td>Critical Approaches to Public Librarianship</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select a minimum of three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 520</td>
<td>Managing Library Collections</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 524</td>
<td>Management of Libraries and Information Services</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 622</td>
<td>Information Marketing</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 640</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 645</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 646</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 660</td>
<td>Information Policy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 661</td>
<td>Information Ethics</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 682</td>
<td>Digital Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 774</td>
<td>Online Information Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 862</td>
<td>Legal Issues for Library and Information Managers</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 999</td>
<td>Independent Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 15

**Additional Requirements**

**Time Limit**

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

**School Librarianship, Undergraduate Certificate**

UW-Milwaukee’s Certificate in School Librarianship prepares candidates for the Wisconsin Department of Public Instruction Teaching License #1902, so they may serve as certified school librarians in Wisconsin K-12 school districts. School librarians serve the information needs of K-12 students, teachers, and families. In addition to being experts in library and information studies content and competencies, school librarians also have skills as teachers, guiding students in research, reading, information literacy, ethical use of information, and critical thinking.

We have four pathways towards licensure:

1A: students who are already certified teachers who want to earn their add-on certification in school librarianship as part of their Master’s in Library and Information Science (MLIS) degree.

1B: students who are already certified teachers who only want the add-on certification in school librarianship.

2A: students who are not yet certified teachers who will be earning their Master’s in Library and Information Science (MLIS) degree, and then their initial licensure in school libraries.

2B: students who are not yet certified teachers who will be earning only their initial licensure in school librarianship.

**Requirements**

Students must already hold an undergraduate degree and must have matriculated with a cumulative GPA of 2.75 or higher. Students are required to maintain a cumulative 2.75 GPA or higher throughout their certificate program as well. Specific program requirements vary depending on which pathway (1A, 1B, 2A, or 2B) the student is following towards licensure, but SOIS courses and clinical work are required for every program. Per WI DPI requirements, all students must complete a successful background check through UWM to gain admission to our program. Please visit this link (https://uwm.edu/education/academics/clinical-experiences/) to complete the check through UWM’s partnership with MPS.

We have four pathways towards school library licensure:

1A: students who are already certified teachers who want to earn their add-on licensure in school librarianship as part of their Master's in Library and Information Science (MLIS) degree. These students complete the certification requirements as part of their MLIS and will not be a part of the undergraduate certificate program.

1B: students who are already certified teachers who only want the add-on certification in school librarianship. These students are undergraduate certificate program students for their entire course of study.

2A: students who are not yet certified teachers who will be earning their Master’s in Library and Information Science (MLIS) degree, and then return as undergraduate certificate program students to complete their initial licensure in school libraries.

2B: students who are not yet certified teachers who will be earning only their initial licensure in school librarianship. These students are undergraduate certificate program students for their entire course of study.
1A Pathway Course List for certified teachers who want to earn an MLIS with the 1902 school library license:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501G</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511G</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571G</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 645G</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 642G</td>
<td>School Library Media Programs and Resources</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 644G</td>
<td>Clinical Experience in School Libraries</td>
<td>2-3</td>
</tr>
<tr>
<td>INFOST 691G</td>
<td>Special Topics in Information Science: 1</td>
<td>1</td>
</tr>
<tr>
<td>INFOST 640G</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670G</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 647G</td>
<td>Library Services for Children and Young Adults</td>
<td>3</td>
</tr>
</tbody>
</table>

1B Pathway Course List for students who are already certified teachers who want the add-on 1902 licensure in school librarianship:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 520</td>
<td>Managing Library Collections</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 645</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 646</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 642</td>
<td>School Library Media Programs and Resources</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 644</td>
<td>Clinical Experience in School Libraries</td>
<td>2-3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: 1</td>
<td>1</td>
</tr>
<tr>
<td>INFOST 640</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 647</td>
<td>Library Services for Children and Young Adults</td>
<td>3</td>
</tr>
</tbody>
</table>

2A Pathway Course List for students who are not yet certified teachers who will earn their Master's Degree in Library and Information Science (MLIS) degree, and then return to complete their 1902 licensure in school libraries:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501G</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511G</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571G</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 520G</td>
<td>Managing Library Collections</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 645G</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 646G</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 642G</td>
<td>School Library Media Programs and Resources</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 644G</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670G</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 647G</td>
<td>Library Services for Children and Young Adults</td>
<td>3</td>
</tr>
</tbody>
</table>

2B Pathway Course List for students who are not yet certified teachers who will be earning only their 1902 license in school librarianship:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 520</td>
<td>Managing Library Collections</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 645</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 646</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 642</td>
<td>School Library Media Programs and Resources</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: 1</td>
<td>1</td>
</tr>
<tr>
<td>INFOST 640</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 647</td>
<td>Library Services for Children and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 643</td>
<td>Pre-Student Teaching Experience in School Libraries</td>
<td>1-3</td>
</tr>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 325</td>
<td>Practice of Classroom Assessment</td>
<td>2</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 378</td>
<td>Implementing the edTPA in a Clinical Setting</td>
<td>1</td>
</tr>
<tr>
<td>INFOST 644</td>
<td>Clinical Experience in School Libraries</td>
<td>12</td>
</tr>
</tbody>
</table>

1 Topic: Standard Cataloging for School Libraries

Additionally, all non-certified students (2A & 2B) need to complete the School of Education Seminar on Act31: History, Culture, and Sovereignty Rights of Wisconsin Native Americans (1 day, continuing education, no credit).

Please contact our School Library Coordinator for further information:

Susan Hersh, MLIS: shersh@uwm.edu
School Library Media Coordinator/Senior Lecturer
University of Wisconsin-Milwaukee
School of Information Studies, NWQB 3489,
2025 E. Newport Ave. Milwaukee, WI 53211
(414) 229-2474
LETTERS AND SCIENCE (COLLEGE OF)

The College of Letters and Science is the largest academic unit of the University of Wisconsin-Milwaukee. Study of the liberal arts and sciences provides a broad base of knowledge and an array of skills cited by employers as critical to professional success, even more than the major: critical thinking, problem solving, oral and written communication, ability to work well with others, and adaptability to change.

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  - African and African Diaspora Studies, MA (p. 717)
  - African and African Diaspora Studies, Minor (p. 718)
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  - Anthropology, PhD (p. 738)
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  - Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 740)
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  - Museum Studies, Graduate Certificate (p. 742)
- Art History (p. 743)
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  - Art History, MA (p. 748)
  - Art History, MA/Library and Information Science, MLIS (p. 749)
  - Art History, Minor (p. 750)
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- Biological Sciences (p. 753)
  - Biological Sciences, BA (p. 755)
  - Biological Sciences, BS (p. 760)
  - Biological Sciences, Minor (p. 766)
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  - Celtic Studies, Undergraduate Certificate (p. 774)
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  - Biochemistry, BA (p. 777)
  - Biochemistry, BS (p. 782)
  - Chemistry, BA (p. 787)
  - Chemistry, BS (p. 793)
  - Chemistry, Minor (p. 798)
  - Chemistry, MS (p. 798)
  - Chemistry, PhD (p. 799)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 800)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 801)
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  • Business French, Minor (p. 919)
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  • French, Minor (p. 929)
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  • Geographic Information Science, Minor (p. 934)
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  • Geography, PhD (p. 951)
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• Geosciences, BA (p. 955)
• Geosciences, BS (p. 958)
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  • Global Studies, BA (p. 966)
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  • History, MA (p. 987)
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  • History, MA: Public History (p. 989)
  • History, Minor (p. 993)
  • History, PhD (p. 995)
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  • Human Resources and Labor Relations, MHRLR (College of Letters and Science) (p. 998)
  • International Human Resources and Labor Relations, Graduate Certificate (p. 999)
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  • International Studies, BA (p. 1000)
  • International Studies, Minor (p. 1008)
• Jewish Studies (p. 1013)
  • Holocaust, Genocide, and Human Rights Studies, Undergraduate Certificate (p. 1014)
  • Jewish Studies, BA (p. 1014)
  • Jewish Studies, Minor (p. 1018)
• Journalism, Advertising, and Media Studies (p. 1019)
  • Journalism, Advertising, and Media Studies, BA (p. 1020)
  • Journalism, Advertising, and Media Studies, Minor (p. 1024)
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  • Language, Literature, and Translation, MA (p. 1026)
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  • Language, Literature, and Translation, MA: Classics (p. 1028)
  • Language, Literature, and Translation, MA: Comparative Literature (p. 1029)
  • Language, Literature, and Translation, MA: Classical Greek (p. 1031)
  • Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (p. 1032)
  • Language, Literature, and Translation, MA: German Language, Literature, and Culture (p. 1033)
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  • Language, Literature, and Translation, MA: Linguistics (p. 1038)
  • Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture (p. 1039)
  • Language, Literature, and Translation, MA: Translation (p. 1041)
• Latin American and Caribbean Studies (p. 1043)
• Latin American and Caribbean Studies, Undergraduate Certificate (p. 1043)
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• Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate (p. 1057)
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• Linguistics, BA (p. 1059)
• Linguistics, MA (p. 1063)
• Linguistics, MA: Teaching English to Speakers of Other Languages (p. 1064)
• Linguistics, Minor (p. 1066)
• Linguistics, PhD (p. 1066)
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• Mathematical Sciences (p. 1069)
• Actuarial Science, BA (p. 1071)
• Actuarial Science, Minor (p. 1075)
• Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematical Sciences) (p. 1076)
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• Philosophy, Minor (p. 1112)
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• Physics, BS (p. 1114)
• Physics, Minor (p. 1118)
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Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations
Semester Course Load (UWM Policy)
Students in Letters and Science may carry a maximum of 18 credits in a regular semester. In extraordinary circumstances, an overload may be granted to a student with a high GPA who has no outstanding incompletes. Students should contact their Letters and Science advisor for instructions on requesting an overload. Additional fees are assessed for credits beyond 18.

Bachelors of Arts and Bachelors of Science Degree Requirements (Letters & Science Policy)
Specific degree requirements for the Bachelor of Arts and Bachelor of Sciences degrees are listed on on the individual pages for those majors.

Students are cautioned to meet with their advisor(s) regularly to ensure they understand all requirements they need to complete in order to graduate, including major requirements, UWM general education requirements, Letters and Science breadth requirements, and Letters and Science degree requirements. Students should not rely on pre-printed sample plans as those are intended as samples only and may not apply to every student’s exact circumstances.

Declaration of an Intended Major (Letters & Science Policy)
Students who are not yet eligible to declare a major formally may declare an intended major in an academic discipline of interest to them. The declaration of an intended major is encouraged as soon as a student finds they are interested in a particular area. This action permits the department to identify students to whom to send information concerning programs, scholarships, opportunities (e.g., internships), and other matters relating to the area of study. Students may declare an intended major by completing a brief form available online (http://uw.edu/letters-science/wp-content/uploads/sites/255/2016/05/Intended_Major_Form.pdf) or from the L&S Advising Office (HLT 142).

Declaration of a Major (Letters & Science Policy)
Students must declare a major by contacting the appropriate academic department or program. Specific information on how to declare a major can be found on that program’s web site. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.

Major GPA Requirement (Letters & Science Policy)
The College requires that students attain at least a 2.0 GPA in all credits in the major, including courses attempted at UWM and courses taken elsewhere and transferred to UWM. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other than the home department. Contact your major faculty advisor for information on whether those credits will count as part of the major GPA.

Cumulative GPA Requirement (UWM Policy)
To be eligible for a bachelor’s degree, students must attain a cumulative GPA of 2.0 on all credits that count toward a degree, including any transfer work.

Major and Minor Residency Requirement (Letters & Science Policy)
The College requires that students complete at least 15 credits of their major in upper-division (numbered 300 or above) courses at UWM in order to earn that major from UWM.

The College requires that students complete at least 9 credits of their minor in upper-division (numbered 300 or above) courses at UWM in order to earn that minor from UWM.

Degree Residency Requirements (Letters & Science Policy)
In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires students to:

1. Take the last 30 credits of their program at UWM, or
2. Take 45 of the last 60 credits at UWM, or
3. Take at least 90 of the 120 credits needed for a degree at UWM

Credits earned through credit-by-examination, retroactive credit in foreign languages, and the College Level Examination Program do not count toward residency, but they also do not interrupt residency.

Transfer Credit Limitations and Requirements (Letters & Science Policy)
Students who transfer to UWM from a UW two-year college, Milwaukee Area Technical College, Madison Area Technical College, or Nicolet Technical College may transfer up to 72 credits taken at a two-year school.

Students who transfer to UWM from a junior college outside Wisconsin must earn the final 48 credits at UWM or in another bachelor’s-degree-
granting college or university in accord with the requirements stated above.

Research Requirement (Letters & Science policy)
Within their major, students must complete a research experience approved by the L&S Faculty.

Major Requirements (Letters & Science policy)
To complete a major, students must satisfy all the requirements of the major as stated in the department or program entry in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

Committee Interdisciplinary Major
The Committee Interdisciplinary Major (CIM) is designed to meet the individual needs of the students. Upon request by a student, a committee of three or more individuals from two or more academic units may develop a major based on that student’s abilities and needs. All committee majors must be approved by the major academic units involved. The CIM requires a minimum of 30 credits, of which at least 15 must be in upper-division (numbered 300 or above) Letters and Science courses taken in residence at UWM. The CIM must include coursework in at least two L&S academic units. Most academic units outside the College also may be selected as part of the major. However, at least 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will not count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a CIM, students should obtain a “Declaration of Committee Interdisciplinary Major” form from the Office of Student Academic Services. They must prepare a written statement defining the goals of their proposed major, and then identify three individuals from two or more academic units who are willing to function as the major oversight committee. One individual may be an academic staff member, but at least two must be faculty members. Academic staff members of CIM committees must be approved by the CIM committee chair and the Assistant Dean for L&S Student Academic Services. At least two committee members must be from L&S. A member of the L&S faculty serves as committee chair and major advisor. The student and committee members together identify the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair/director of every academic unit in which courses in the major will be taken. Students present the completed declaration form to the Office of Student Academic Services at any time between the 15th and 75th credit. An academic advisor, in consultation with the Assistant Dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.

Minors (Letters & Science Policy)
The completion of a minor is optional. The College requires that students attain at least a 2.0 GPA in all credits in the minor, including courses attempted at UWM and any courses taken elsewhere and transferred to UWM for the minor. Individual departments may require higher GPAs for graduation. Students must complete at least 9 credits of upper-division (numbered 300 or above) courses in the minor at UWM in order to earn the minor from UWM.

Minimum Number of Cumulative Credits (UWM Policy)
To complete a bachelor’s degree, 120 degree credits are required.

Other Credit Requirements, Bachelor of Arts (Letters & Science Policy)
For the Bachelor of Arts degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science.

At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department. No more than 6 credits from a single course outside the College may be counted toward the degree. A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No “life experience” credits may be counted toward the degree.

Other Credit Requirements, Bachelor of Science (Letters & Science Policy)
For the Bachelor of Science degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. At least 30 of these 36 credits must be from natural science curricular areas or other courses approved as advanced natural sciences (http://uwm.edu/letters-science/advising/degree-requirements/ls-degree-requirements-fall-2013-current/fall-2013-bachelor-of-science-bs-degree-requirements/advanced-natural-science-approved-courses-list/).

At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department. No more than 6 credits from a single course outside the College may be counted toward the degree. A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No “life experience” credits may be counted toward the degree.

Eligibility for Prior Degree Requirements (Letters & Science Policy)
A student who declares their major within five years of entering the UW System as a degree candidate at any campus may choose to satisfy the requirements in force at the time of the declaration of major. Alternatively, a student may choose to satisfy any set of requirements that was in place at any time since they first entered the UW System as a degree-seeking student. Students are advised to consult with their advisor to determine whether an earlier set of requirements would be more advantageous.

Similarly, returning students who have been out of school for a long amount of time, should consult their advisor about which set of
requirements may apply and which would be the best path for their specific circumstances.

Second Baccalaureate Degree Requirements (Letters & Science Policy)
Students who already hold a bachelor’s degree from UWM or from another university who wish to earn a second baccalaureate degree can do so by satisfying all current requirements for that undergraduate degree in the College of Letters and Science. The second bachelor’s degree must be a different degree than the first bachelor’s degree (e.g. a student who holds a bachelor of science degree may seek a bachelor of arts degree, but a student who already holds a bachelor of arts degree may not seek a second bachelor of arts degree).

Coursework previously completed, whether at UWM or elsewhere, may be used to satisfy requirements. However, students must complete a minimum of 30 credits at UWM after the date upon which the first degree was awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed at UWM. Of these 30 credits, at least 24 must be in courses offered through the College of Letters and Science. And, at least 20 of the 30 credits must be in upper-division courses, numbered 300 or above. Students must satisfy the current requirements for the chosen major.

Post-Baccalaureate Second Major or Additional Major Requirements (Letters & Science Policy)
Students who already hold a bachelor’s degree from UWM or from another university who wish to add an additional major to their credentials can do so by completing only the requirements for that major. Students are not required to complete an entire second degree. Students who opt for this path will leave UWM with certification that they have completed an additional major that can then be listed on a resume along with their original degree (e.g. "Bachelor of Arts with a psychology major from the University of Illinois, with a second major in sociology from UWM").

All credit and grade point average requirements currently in effect for the selected major are enforced. This means that students must complete a minimum of 15 advanced credits (numbered 300 or above) at UWM, and they must complete the version of the major in effect at the time of declaration. Students participating in the program must provide transcripts of all prior non-UWM work. Those with a prior degree are admitted with senior standing. Completion of the major is certified by the major department and recorded on an official UWM transcript.

Changing Majors (UWM Policy)
Current UWM students with a major outside of the College of Letters and Science who wish to change to a major within the College of Letters and Science, may do so at any time as long as they are in good academic standing (minimum 2.0 GPA). Complete this form (http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change_Of_Program_Form.pdf), schedule an appointment with a Letters and Science advisor by calling (414) 229-4654, and bring the form to your appointment. Students should carefully note that degree requirements differ significantly between the different Schools and Colleges at UWM and a thorough discussion with an advisor is recommended before making this change, especially if the student is several years into his/her college career.

If you are not currently in good standing, you may still make an appointment with an advisor to discuss ways to raise your GPA and classes you can take prior to transferring into L&S.

Make a Program Change (Add, drop, withdraw, etc.) (Letters & Science Policy)
Many changes can be made on a self-service basis directly in PAWS up to two weeks after the start of a class. After that point in time, students should consult the Letters and Science advising website (http://uwm.edu/letters-science/advising/answers-forms/) for instructions on how to make a program change; there are different instructions depending on how many weeks have past since the start of the semester.

Grade Appeal Policy (Letters & Science Policy)
Students should review the Letters and Science policy for grievances and grade appeals (http://uwm.edu/letters-science/advising/answers-forms/policies/appeal-procedure-for-grades/).

Academic Probation and Academic Drop (UWM Policy)
Students with a cumulative GPA below 2.0 are placed on academic probation. While on academic probation, if the next semester’s GPA remains below a 2.0, the student will be dropped for one semester. However, if the student’s semester GPA is at least 2.0 but the cumulative GPA remains below a 2.0, the student may continue attending UWM on probation. The probation status will be removed when the cumulative GPA rises to a 2.0 or higher.

Return from Academic Drop (UWM Policy)
Students may appeal to return after being dropped by contacting their advisor. Appeals will only be considered if significant and extenuating non-academic reasons can be presented. Students may be asked to provide verifiable documentation of medically-related or other circumstances.

A student who is allowed to return will be placed into a final probation status. A student who is on final probation who earns a semester GPA of at least 2.0 will be allowed to continue on final probation until the cumulative GPA rises above a 2.0. However, if a student fails to earn at least a 2.0 semester GPA, they will be dropped for two years.

Incomplete Policy (Letters & Science Policy)
Students should review the Letters and Science policy for incompletes (http://uwm.edu/letters-science/advising/answers-forms/policies/incomplete-policy/).

Concurrent Enrollment (Letters & Science Policy)
Students should review the Letters and Science concurrent enrollment (http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy/). Concurrent enrollment refers to taking classes at both UWM and another university during the same semester. Permission is required for Fall and Spring concurrent enrollment; permission is not required to concurrently enroll in more than one university during the summer.

Repeat Policy (UWM Policy)
Students should review UWM’s policy on repeats (http://uwm.edu/onestop/enrolling/eligibility-to-enroll/). The policy can be found on the campus’ OneStop website under the section called “Enrollment Policies.”
Academic Advising and Admissions Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Undergraduate Opportunities
Online Coursework and Online Majors
The College of Letters and Science offers a variety of coursework online or in a blended format (partially online and partially in-person). No distinction is made between an "online" student and an "in-person" student; students register for any combination of course formats that they wish to take. Almost all students choose to take at least one online course during their college career. All coursework is taught by the same faculty members and is of the same rigor whether it is online or in-person.

As of January 2018, there are six majors and minors available entirely online: communication, history, Jewish studies, political science, psychology, and sociology.

Independent Learning Program
The University of Wisconsin System offers online independent learning opportunities (https://il.wisconsin.edu/) to students at all campuses whereby they can earn college credit.

Letters and Science students may take advantage of this program in one of two ways:

1. Students who meet the following criteria may be able to take a UW Independent Learning course for free:
   - enrolled full-time in either fall or spring semester
   - will also enroll in one or more UW Independent Learning course during the first two weeks of the fall or spring semester
   - will complete the UW Independent Learning course during fall or spring semester rather than completing it at your-own-pace
   - will be taking a class or classes through UW Independent Learning that are not offered by UWM online (for example, foreign language courses)

If you meet these criteria, you should petition to take a UW independent Learning course for free by contacting the Assistant Dean for Student Academic Services, Cindy Piercy at cindy@uwm.edu. Include in your email your name, student ID, and information about the class(es) you seek to take through the UW Independent Learning program.

2. Students can also choose to pay out-of-pocket for UW Independent Learning courses if they are part-time students or wish to take an Independent Learning course during summer term or UWinterM term. Letters and Science imposes a one-year time limit to complete any UW Independent Learning class to have it count for credit.

All students should consult with their advisor prior to registering for a UW Independent Learning course to make sure they understand any other restrictions related to repeating a course that was previously taken or our concurrent enrollment policy (http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy/).

Credit for Demonstrated Equivalent Preparation (non-foreign language)
Under certain circumstances, a department may grant credits toward graduation for knowledge or abilities attained through previous work, i.e., coursework or other systematic study as determined by the department. Although the College of Letters and Science places no limit on the number of credits that may be obtained in this way, departments, if they choose to do so, may set limits on the number of credits they will grant.

Departments other than foreign language departments may grant a student credits toward graduation for a University course in which they request and pass a special University examination. An examination for credit must be based on work equivalent to a course given at UWM, and the credits granted will be for the corresponding course. In order to justify the request for an examination for credit, the student must present evidence of previous preparation to the department. Permission for such examinations must be secured in advance from the Dean of the College upon recommendation of the department chair. Examinations for credit will be taken at a time specified by the department. In general, a student may not take such an examination if any previous enrollment in the target course appears on the student’s record, whether or not the course was completed.

Credit for Demonstrated Equivalent Preparation (retro credits for foreign language)
Foreign language departments may allow students to receive credit for prerequisite language courses at the 100 and 200 level upon completion of higher-level entry courses in that language. For example, a student whose placement test score allows them to start at the Third-Semester Spanish, for example, would receive the credits for First-Semester Spanish and Second-Semester Spanish if they successfully complete Third-Semester Spanish with a B or better. As a general policy, a grade of B or above is required, but individual departments may set a higher grade requirement. Only the grade in the completed course is computed.
into the grade point average; no GPA points are calculated for the retro credits. A student who earns below the required grade in the starting course becomes, thereafter, ineligible for "retro" credits in the language involved.

The number of credits that can be earned in this way is limited to a maximum of 16 in any one language.

Credits granted for the courses skipped will be equal to the credit value of those course(s) or a maximum of 4 credits for each, whichever is smallest. Students may not be granted "retro" credits for courses at the 300 level and above, except where the fourth-semester course in a regular language sequence is numbered 300 or above.

In the foreign languages, retro credits also may be granted to transfer students under the following circumstances:

- Retro credits granted by another institution will be accepted at UWM if they were granted based on a course that generates retro credits at UWM and if the student has earned the grade that is required at UWM.
- A transfer student coming from an institution that does not grant retro credits but who took a foreign language course that transfers as a qualifying course at UWM may apply for retro credits if the student satisfies UWM standards for receiving retro credits.

In both cases, the number of retro credits awarded will be limited to the number of credits students at UWM are granted for each prerequisite course.

Students who want more information should contact the chair of the appropriate language department.

First-Year Seminars

The First-Year Seminar Program gives freshmen the opportunity to participate in a small learning community during their first semester, helping to ease the transition to college.

Limited to just 20 first-year students, each seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small seminar setting, the professor serves as a mentor, coaching and helping students to achieve success. First-year seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and skills for college success.

Seminars are offered in a wide variety of interest areas across the natural sciences, social sciences, and humanities. Most first-year seminars are offered for three credits and can be applied to degree requirements. See the Schedule of Classes (https://www4.uwm.edu/schedule/) for a list of first-year seminars taught in the current semester.

For more information, contact your advisor or our admissions counselors at (414) 229-7711 or let-sci@uwm.edu.

Independent Study

Certain departments allow qualified students to register for independent study. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a member of the Letters and Science faculty or instructional academic staff. The activities may include reading, research, or special projects. In most departments, independent study is offered at the lower (course number 199) and upper levels (course number 699), although both levels are not available in all departments.

In order to apply for lower-level independent study, students must have a 2.5 GPA or above on all credits attempted at UWM. The upper-level independent study course carries a prerequisite of junior standing and a 2.5 UWM GPA. Departments may opt to set higher GPA prerequisites. To ascertain class standing and cumulative GPA for new transfer, special, and summer-only students, a transcript of all previous college work must be submitted. Some independent study courses may have departmental prerequisites in addition to these college-wide prerequisites. Departments do not have the authority to waive college-wide prerequisites. To see if a particular department offers independent, see that department's course listings in this catalog.

Students interested in an independent study should work with the individual they have chosen as their supervising instructor to prepare a study proposal describing the plan of study. The study proposal must be approved by the department chair and forwarded to the Office of Student Academic Services via your Letters and Science advisor.

Internships and Experiential Opportunities

Students are strongly encouraged to enhance their classroom knowledge with experiential knowledge gained through work, volunteer, and internship experiences. These experiences are vital to career exploration and for building a resume prior to graduation.

Students find internships through a variety of sources: some use their own network to find opportunities, some majors provide assistance or host a job board, and some organizations will post opportunities with the UWM Career Planning and Resource Center (http://uwm.edu/careerplan/). Students should explore all avenues, including speaking with both their major advisor and their Letters and Science advisor, to find experiential learning opportunities.

Some internships may be available for college credit or for pay, or a combination of both. Students should inquire of all details and arrange for proper registration for credit if that is an option with their major advisor.

Research Experience (Office of Undergraduate Research (OUR))

Many programs in the College of Letters and Science work closely with the Office of Undergraduate Research (OUR) to offer research experiences for undergraduates. Research spans the natural sciences, social sciences, and humanities and highly-motivated students can contribute to the creation of knowledge, sometimes even achieving professional publication alongside of faculty members.

As early as the first year in college, students can work side-by-side with faculty members and graduate students on research projects. Opportunities can include credit, pay, or a combination of both. OUR staff will help students identify possible research projects and arrange for students to meet with the faculty members. Students can browse current opportunities at their website (https://uwm.edu/our/).

Certificate Programs

Certificates are similar to minors in terms of the number of credits required. Where a minor consists of all coursework from the same department, a certificate draws on classes from multiple areas all centered around a common theme such as Asian Studies.
All certificate programs are open to current students pursuing a degree in any area, including areas outside of the College of Letters and Science. Some certificates are also open to non-degree seeking students or students who already hold a bachelor’s degree either from UWM or from another university. Interested students should check with the director of the certificate program to learn about any prerequisites or other requirements.

Scholarships
The College as well as its many individual programs and departments have a limited number of scholarships and awards for high-achieving students. Students should visit our scholarship page (http://uwm.edu/letters-science/scholarships/) to learn more about available scholarships and deadlines. In general, new freshmen scholarships are given out between December and February for the following Fall (e.g. January of 2018 for a Fall 2018 start date). Many continuing student scholarships are given out 4 to 6 months ahead of the term in which the student will receive the funding (e.g. April of 2018 for the Fall 2018 semester).

Administration
Scott Gronert
Dean
Dave Clark
Senior Associate Dean
Daad Saffarini
Associate Dean, Natural Sciences
James Moyer
Associate Dean, Social Sciences
Jasmine Alinder
Associate Dean, Humanities
Deanna Alba
Assistant Dean, College Relations, Marketing, Communication, PR
Mike Darnell
Assistant Dean, Curriculum, Governance, and Assessment
Patricia Kissinger
Assistant Dean, Unit Business Representative

Faculty
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<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Osei-Mensah Aborampah</td>
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<td>PhD</td>
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<tr>
<td>Joyce F. Kirk</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nolan Kopkin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doreatha D. Mbalia</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gladys Mitchell-Walthour</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cindy Piercy
Interim Assistant Dean, Student Academic Services

Craig Wesley
Assistant Dean, Administrative Affairs and Personnel

Contact Information
Office of L&S Student Academic Services
Holton Hall, 142
Phone: (414) 229-4654
lsadvising@uwm.edu

African and African Diaspora Studies
African and African Diaspora Studies is the discipline that studies the cultures, societies, and political economies of people of African descent in the United States and throughout the world. African and African Diaspora Studies uses both quantitative and qualitative methods of inquiry to describe, explain, evaluate, and predict the lived experiences of people of African descent. The major in African and African Diaspora Studies thus educates students in the best traditions of the liberal arts and sciences, providing them with a sound knowledge of the past, present, and future roles of people of African descent in structuring life in diverse societies. The department's courses are designed to satisfy the needs of students who desire to specialize in African and African Diaspora Studies or whose career objectives make it desirable to have knowledge of the people of African descent in the United States and throughout the world.

Students thinking of majoring or minoring in African and African Diaspora Studies are encouraged to contact the department for assistance at uwm.edu/african-diaspora-studies/contact-us (http://uwm.edu/african-diaspora-studies/contact-us/).

Programs
• African and African Diaspora Studies, BA (p. 713)
• African and African Diaspora Studies, MA (p. 717)
• African and African Diaspora Studies, Minor (p. 718)
• African and African Diaspora Studies, PhD (p. 719)
African and African Diaspora Studies, BA

African and African Diaspora Studies examines cultures, societies and political economies of peoples of African origin and descent. This includes not just peoples of the African continent but everyone with African roots around the globe, often referred to as the African diaspora. The study of African and African Diaspora Studies is relevant to everyone, regardless of race, gender, ethnicity, nationality or religion. You will find value in the program if you are interested in working within the U.S. or internationally in health services, education, journalism, social work, politics, law, business, the non-profit sector, trade, the arts and government agencies.

Through coursework in history, literature, political science, economics, and more, students will examine a variety of issues and themes through an African-centric lens. Along the way, they will be honing their skills in communication, information analysis, and research - all skills cited by employers as critically important in their hiring process.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
</tbody>
</table>

MATH 103 Contemporary Applications of Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
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</tr>
</tbody>
</table>

Humanities

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
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</tbody>
</table>

Social Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
</tbody>
</table>

Natural Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td></td>
</tr>
</tbody>
</table>

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.
II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning^1</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

^1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

^Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

African and African Diaspora Studies Major Requirements

All majors must be accepted by the department, and their programs must be arranged with a departmental advisor. To be retained as majors, students must maintain a GPA of 2.0 or better in African and African Diaspora courses attempted at UWM. In addition, students must attain a 2.0 GPA in all major courses attempted, including any transfer work. A total of 36 credits is required to complete the major; 15 credits at the 300 level or above must be taken in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 215</td>
<td>Introduction to Black Social and Cultural Traditions</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies 1</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 228</td>
<td>Introduction to Black Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 301</td>
<td>Research Methods in African &amp; African Diaspora Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialization

Select at least 12 credits in one of the following options: 12

Option A: Political Economy

Option B: Culture and Society

Additional Requirements

Select up to 6 credits in the other option 3-6
Select up to 6 credits at the 100 level 3 3-6

Research Requirement

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 300</td>
<td>Urban Violence</td>
<td></td>
</tr>
<tr>
<td>AFRIC 319</td>
<td>African American Urban History</td>
<td></td>
</tr>
<tr>
<td>AFRIC 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td></td>
</tr>
<tr>
<td>AFRIC 321</td>
<td>Black Workers in the 21st Century</td>
<td></td>
</tr>
<tr>
<td>AFRIC 326</td>
<td>Economic Problems of Black Business</td>
<td></td>
</tr>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td></td>
</tr>
<tr>
<td>AFRIC 341</td>
<td>Black Politics and City Government</td>
<td></td>
</tr>
<tr>
<td>AFRIC 344</td>
<td>Global Black Social Movements</td>
<td></td>
</tr>
<tr>
<td>AFRIC 352</td>
<td>Extended Families in Black Societies</td>
<td></td>
</tr>
<tr>
<td>AFRIC 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td></td>
</tr>
<tr>
<td>AFRIC 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td></td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
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</tr>
<tr>
<td>AFRIC 699</td>
<td>Independent Study 4</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 33-39

1 With departmental approval, the statistics requirement may be satisfied with another statistics course.

2 With departmental approval, the research methods requirement may be satisfied with another methods course.

3 AFRIC 100 is highly recommended. Though not required, 100-level courses prepare students for higher-level African and African Diaspora courses. No more than 6 credits of 100-level courses can count toward the major.

4 With departmental approval, students can complete 3 credits in AFRIC 699 that involves completion of a research experience designed according to departmental standards.

Options

Majors specialize in one of two options: political economy or culture and society.

Option A: Political Economy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 235</td>
<td>African Americans and South Africa 1</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 261</td>
<td>Survey of African-American Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>AFRIC 300</td>
<td>Urban Violence</td>
<td></td>
</tr>
<tr>
<td>AFRIC 321</td>
<td>Black Workers in the 21st Century</td>
<td></td>
</tr>
<tr>
<td>AFRIC 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td></td>
</tr>
<tr>
<td>AFRIC 323</td>
<td>Capitalism, Socialism, Nationalism and Fascism</td>
<td></td>
</tr>
<tr>
<td>AFRIC 325</td>
<td>Africa/China Relations</td>
<td></td>
</tr>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td></td>
</tr>
</tbody>
</table>
### Cross-Listed Courses

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in African and African Diaspora Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English: African Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics (Radical Black Film)</td>
<td>3</td>
</tr>
<tr>
<td>PORTUGS 225</td>
<td>Understanding Brazil: (African Presence in Brazilian Culture and Literature)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in.
In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ermitte Saint Jacques:</td>
<td>Undergraduate Advisor</td>
<td><a href="mailto:saintjac@uwm.edu">saintjac@uwm.edu</a></td>
</tr>
<tr>
<td>Anika Wilson:</td>
<td>Department Chair</td>
<td><a href="mailto:awilson@uwm.edu">awilson@uwm.edu</a></td>
</tr>
</tbody>
</table>

### Honors in the College of Letters and Science

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### African and African Diaspora Studies, MA

This interdisciplinary program is designed to give graduates an understanding of the African and African diasporic experiences in both local and global contexts and incorporate culturally distinct perspectives in analysis of social and cultural phenomena. Upon completion of the program graduates will be able to analyze and compare knowledge systems and practices within African and African diasporic populations. MA graduates will gain skills in critiquing policies with respect to impacts upon communities of African descent both currently and in historical contexts. The MA will teach students to reflect upon and apply awareness of African and African diasporic experiences and theory to individual professional practices, communications, and interactions. Furthermore, MA graduates will gain quantitative and qualitative methodological skills for identifying and examining challenges affecting people of African descent as well as strengths and resources within African and African diasporic communities. Finally, students will utilize theoretical frameworks from Black Studies to design research-based strategies, programs, and recommendations to address challenges affecting people of African descent.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

### Credits and Courses

The MA in African and African Diaspora Studies is designed to be completed in two years and consists of 30 graduate-course credits. These 30 credits comprise 24 credit hours of advanced coursework, followed by 6 credit hours of thesis or project work. At least 15 credits of overall coursework must be taken at the 700 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Core Coursework</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 700</td>
<td>Foundations and Theories in African &amp; African Diaspora Studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>AFRIC 705</td>
<td>Classic Works: Intellectual Production in Africa and the Diaspora I</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>AFRIC 708</td>
<td>Black Literary Theory and Cultural Studies</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Coursework

Complete 12 credits from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 300</td>
<td>Urban Violence</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 319</td>
<td>African American Urban History</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 321</td>
<td>Black Workers in the 21st Century</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 325</td>
<td>Africa/China Relations</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 326</td>
<td>Economic Problems of Black Business</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 344</td>
<td>Global Black Social Movements</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 350</td>
<td>The Black Family</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 450</td>
<td>Cultural Transmissions: Black Africa and Black America</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 451</td>
<td>Rites of Passage in Black Societies</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 497</td>
<td>Study Abroad:</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 545</td>
<td>Raising Children, 'Race-ing' Children</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 565</td>
<td>Selected Texts/Topics in African &amp; African Diaspora Studies:</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 706</td>
<td>Classic Works: Intellectual Production in Africa and the Diaspora II</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 709</td>
<td>Critical Literary Theory II: Modern Concepts in the African World</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 799</td>
<td>Graduate Independent Study</td>
<td>12</td>
</tr>
<tr>
<td>AFRIC 800</td>
<td>Introduction to Qualitative Research Methods in African &amp; African Diaspora Studies</td>
<td>12</td>
</tr>
</tbody>
</table>
AFRIC 804 Qualitative Interviewing and Grounded Theory
AFRIC 812 Political Economy: Conceptual
AFRIC 814 Public Policies, Development, and Underdevelopment in Africa & the Diaspora
AFRIC 816 Political Economy of Development in African Countries
AFRIC 817 Political Economy of Development in African Countries II
AFRIC 818 Race Matters: Government and Politics in Latin America and the Caribbean
AFRIC 820 Political Economy of Income and Wealth Inequality
AFRIC 821 Race and Inequality
AFRIC 834 Seminar on Slavery
AFRIC 836 Comparative Social Institutions in African World Communities
AFRIC 837 Memory and Tradition: Identity-Making and Memory in the African Diaspora
AFRIC 840 Healing Traditions in the African Diaspora
AFRIC 845 Race/Ethnicity and the Psychology of Oppression
AFRIC 851 African-American Literary Theory and Criticism
AFRIC 852 Folklore in the African World:
AFRIC 862 Development of African-American Children in Urban and Rural Areas
AFRIC 865 The Quest for Pan-Africanism
AFRIC 866 Black Power Reconsidered
AFRIC 867 Problems in African American Urban History
AFRIC 868 Black Intellectuals and the Public Sphere
AFRIC 880 Seminar on Issues in African & African Diaspora Studies:

Thesis Research or Project 6

Total Credits 30

**Additional Requirements**

**Thesis Track**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Graduate Committee assigns a faculty advisor as a necessary prerequisite to admission.

**Thesis**

Students must prepare and defend a formal thesis reporting the results of their research.

**Time Limit**

Student must complete all degree requirements within five years of initial enrollment. It is expected that a full-time student will normally complete all of the requirements for the degree within two years.

**Project**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Graduate Committee assigns a faculty advisor as a necessary prerequisite to admission.

**Project**

Students will, in consultation with their major professor, develop a significant research project, rather than a formal thesis as would be appropriate for a student continuing on to a PhD.

**Time Limit**

Student must complete all degree requirements within five years of initial enrollment. It is expected that a full-time student will normally complete all of the requirements for the degree within two years.

**African and African Diaspora Studies, Minor**

African and African Diaspora Studies examines cultures, societies and political economies of peoples of African origin and descent. This includes not just peoples of the African continent but everyone with African roots around the globe, often referred to as the African diaspora. The study of African and African Diaspora Studies is relevant to everyone, regardless of race, gender, ethnicity, nationality or religion. You will find value in the program if you are interested in working within the U.S. or internationally in health services, education, journalism, social work, politics, law, business, the non-profit sector, trade, the arts and government agencies.

Through coursework in history, literature, political science, economics, and more, students will examine a variety of issues and themes through an African-centric lens. Along the way, they will be honing their skills in communication, information analysis, and research - all skills cited by employers as critically important in their hiring process.

**Requirements**

The purpose of the minor is to expose students to a range of concepts, theories and phenomena that ground the discipline of African and African Diaspora Studies. Students are required to take 18 credits, 12 of which must be completed at or above the 300 level. Up to 6 credits at the 100 level may count toward the minor. Nine credits at the 300 level or above must be taken in residences at UWM. The College of Letters and Science requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Cross-Listed Courses**

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in African and African Diaspora Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English: (African Fiction)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 631</td>
<td>Seminar in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics (Radical Black Film)</td>
<td>3</td>
</tr>
</tbody>
</table>
African and African Diaspora Studies, PhD

The PhD in African and African and Diaspora Studies is grounded in the axiomatic assumption that, as the imperatives of global integration significantly transform human relations, the twenty-first century will witness an exponential expansion of the institutional delivery of Africological knowledge. Across the planet today, Africa remains the only continent with a vast store of natural resources (e.g., uranium, oil, copper, nickel) that are underutilized. With the demand for energy increasing exponentially worldwide, knowledge and understanding of the cultures and political economies of African countries and societies clearly are in the self-interest of the global community. Because of this twenty-first century imperative, the Department of African and African and Diaspora Studies has designed the PhD degree around two concentrations: Political Economy and Public Policy, and Culture and Society. Africa and the African Diaspora.

The fields of concentration are the substantive core of the PhD program. Political economy entails the normative and empirical relations of political and economic phenomena in given sociocultural contexts. Public policy entails the making of binding, authoritative decisions that produce, allocate, reproduce, and reallocate societal resources. Political, economic, cultural, and social elements interact continually in every political economy, and public policy substantially frames their patterns of interaction. Through a range of research methods and techniques, the concentration in political economy and public policy grounds students in local, national, and transnational political economies and public policies. Relevant courses and seminars in such fields as economics, political science, sociology, urban planning, geography, and history will be utilized.

All cultures share in common at least eight attributes. These are species life, species being, language, religion, food, literature-art-science-technology, institutions, and transgenerational memory. Systematic comparisons of these elements of cultures in Africa and the African Diaspora worldwide afford sound explanations of, and novel insights into, the behaviors of Africans and their descent. This concentration in comparative cultures will enable students to scrutinize rigorously exchanges, admixtures! fusions, retentions, and disappearances of cultural elements in Africa and the African Diaspora in regard to their contemporary significance. Relevant courses and seminars in English, foreign languages and literatures, history, and sociology will complement those offered in the department.

Advising

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter Okey Akubeze</td>
<td>Graduate Advisor</td>
</tr>
<tr>
<td><a href="mailto:akubeze@uwm.edu">akubeze@uwm.edu</a></td>
<td></td>
</tr>
<tr>
<td>Anika Wilson</td>
<td>Department Chair</td>
</tr>
<tr>
<td><a href="mailto:awilson@uwm.edu">awilson@uwm.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

To be considered for admission, an applicant must meet UWM Graduate Faculty requirements for admission plus the departmental requirements listed below. A master's degree is not a prerequisite for this PhD program.

1. Possession of an overall undergraduate grade point average of 3.33 (B+)
2. Submission of scores within the last five years from the Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre)
3. Submission of three letters of recommendation from individuals who are familiar with the applicant's academic work
4. Submission of a writing sample (10-15 pages) of the applicant's written work, signaling one's aptitude for graduate study

Normally, students are admitted only for the fall semester. However, in extraordinary circumstances, a student may be permitted to begin PhD studies in the spring semester. The department does not offer a terminal MA degree. Students applying without a master's degree are admitted to the PhD program in the equivalent of master's status.

Admission to the graduate program is based on a careful review of the applicant's academic qualifications, and is highly competitive. Successful candidates usually have a high grade point average (GPA) in their undergraduate majors, as well as overall. There are, of course, a variety of factors that come into play over the years of an applicant's studies, and so the admissions committee will consider closely a student's academic profile, as well as accomplishments that are germane to his/her application.

It is the policy of the Graduate Faculty that "Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses."

The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree."

Language or Mathematics/Statistics Proficiency

Students are expected to enter the PhD program with proficiency in a language other than English and/or in mathematics/statistics. Students may satisfy the language requirement by passing a translation examination administered by a faculty member, or by completing, with a grade of C or better, the final course in a four-semester sequence in a language approved by the department. Native speakers of a departmentally approved language may petition the graduate advisor for an exemption to the foreign language requirement.

Proficiency in mathematics/statistics is indicated by completion of two courses at the upper-division level (numbered 300 and above or requiring junior standing) with at least a B average. Students who have not completed this requirement in the context of their undergraduate (or master's degree) studies must take courses to satisfy the requirement during their PhD studies.

Credits earned in satisfying this requirement do not count toward the required credits for the PhD degree. The language or mathematics/statistics proficiency requirement must be completed prior to the doctoral preliminary examinations. Students are encouraged strongly to have the proficiency requirements completed by the time they take the comprehensive examination.
Credits and Courses

The PhD degree requires completion of at least 54 graduate credits—48 credits of coursework, and 6 dissertation credits. Students may count up to a maximum of 6 credits in dual level undergraduate/graduate courses toward the degree. Precise numbers of credits and actual course requirements will be determined after review of the applicant's previous coursework.

Required

During the first three semesters in the program, the following courses in B on each shall then proceed to take the oral examination. Should a further presentation. Rather, s/he will be given constructive comments concerning the substance and style of his/her presentation. Generally, each colloquium will last for two (2) hours.

• Be registered.
• Have an overall GPA of at least 3.0 (B), at the time of the examination.
• Have completed all coursework—there shall be no incompletes (Is) at the time of the examination.
• Have satisfied the foreign language or mathematics/statistics requirement.
• Have made one presentation to the department’s faculty as a whole in the Departmental Faculty Colloquium Series. The purpose of the presentation is to refine a student’s knowledge of a given subject; socialize students in the rigors of making scholarly presentations on one’s research before future peers; and prepare students for the demands of interviews for future jobs. A student will not be judged to either have passed or failed the presentation. Rather, s/he will be given constructive comments concerning the substance and style of his/her presentation. Generally, each colloquium will last for two (2) hours.

• Have fulfilled all residency requirements.
• Have secured, in addition to their primary departmental advisor, a secondary advisor from outside the department they plan to use their extra-departmental field of concentration as one of the two written-examination fields.

Those who pass the written examinations with a grade of at least a B on each shall then proceed to take the oral examination. Should a student fail one of the two written examinations, s/he upon petition to the Director of Graduate Studies and the Graduate Studies Committee, may be permitted to retake it at the next scheduled examination cycle. Students who fail both written examinations will not be permitted to retake them.

Failure of both written examinations, or the retake of a written examination, or the oral examination, will result in a recommendation to the Graduate School for the student’s academic dismissal. Students who pass the preliminary examinations shall proceed to prepare a dissertation prospectus.

Additional Requirements

Major Professor as Advisor

Upon admission to the program, students are required to consult with the Director of Graduate Studies about the department’s expectations of them, as well as elucidate their own expectations of the department. Soon afterward, students must secure individual advisors, drawn from the department’s faculty.

Residence

The student must complete at least half of the graduate credits required for the PhD in residence (http://uwm.edu/graduateschool/doctoral-requirements/#residence) at UWM in doctoral status. In addition, the student must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

The Comprehensive Examination

Prior to the end of each entering student’s third semester of enrollment, s/he is required to take and pass the department’s graduate student comprehensive examination (written and oral) in order to continue his/her studies toward the PhD degree. There are no exceptions to this requirement. The comprehensive examination is administered in the spring and fall semesters of each academic year.

The examination will be administered by three (3) members of the department’s faculty, who will grade the written work and conduct the orals. Members of the examination committee rotate each academic year. Students must pass the written examination to be eligible for the oral examination.

Students who pass the comprehensive examination are permitted to proceed toward the PhD degree. Failing the exam will result in a recommendation to the Graduate School for the student’s academic dismissal. The comprehensive examination is not repeatable.

Upon passing the exam, students continue to take courses in the concentrations in preparation for the doctoral preliminary examinations and independent research.

The Doctoral Preliminary Examinations

Students will take written and oral doctoral preliminary examinations in two of their three fields of concentration, which they will select.

To be eligible to take the preliminary examinations, which are administered in the fall and spring semesters of each academic year, student must:

- Be registered.
- Have an overall GPA of at least 3.0 (B), at the time of the examination.
- Have completed all coursework—there shall be no incompletes (Is) at the time of the examination.
- Have satisfied the foreign language or mathematics/statistics requirement.
- Have fulfilled all residency requirements.
- Have secured, in addition to their primary departmental advisor, a secondary advisor from outside the department they plan to use their extra-departmental field of concentration as one of the two written-examination fields.

Those who pass the written examinations with a grade of at least a B on each shall then proceed to take the oral examination. Should a student fail one of the two written examinations, s/he upon petition to the Director of Graduate Studies and the Graduate Studies Committee, may be permitted to retake it at the next scheduled examination cycle. Students who fail both written examinations will not be permitted to retake them.

Failure of both written examinations, or the retake of a written examination, or the oral examination, will result in a recommendation to the Graduate School for the student’s academic dismissal. Students who pass the preliminary examinations shall proceed to prepare a dissertation prospectus.
The preliminary examinations must be taken within five years of enrollment in the PhD program.

A student's dissertation committee shall consist of four (4) graduate faculty members, including his/her major professor. At least three (3) of the four members must be from the Department of African and African Diaspora Studies.

Dissertation Prospectus (Proposal Hearing)
Prior to undertaking research for the dissertation, a student is required to prepare a dissertation prospectus, with the advice and consent of his/her advisor and Dissertation Committee. Acceptance of the dissertation proposal establishes an agreement between the student and the Dissertation Committee as to the nature and scope of the research to be conducted, and the procedure for completing the dissertation. Prior to the Dissertation Committee’s approval of the prospectus, research involving the use of human subjects must receive the approval of the Institutional Review Board.

Dissertator Status
Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.

Dissertation
The dissertation is a major piece of original research representing a substantial contribution to an existing body of knowledge. The original research findings embodied in the dissertation should be acceptable for publication in a refereed journal. The student's advisor and Dissertation Committee provide guidance in completing the dissertation. Once a student's dissertation has been approved by his/her advisor and Dissertation Committee, the document, in approved Graduate School format, is ready to be filed with the Graduate School.

Time Limit
It is expected that students entering the program with a baccalaureate degree should normally complete their PhD degree within six (6) years. However, because circumstances beyond a student's control may prevent completion of requirements according to this timeline, students will be granted a maximum of ten years to complete the degree.

American Indian Studies
The American Indian Studies Program offers an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in American Indian Studies. These academic programs draw primarily on courses from anthropology, history, literature, sociology, and education to help students develop a depth of knowledge about — and methodological skills for studying — the life experiences, culture, and languages of the native peoples of the Americas. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. The program's faculty and staff members are involved in ongoing research and publication in this discipline as well as related academic disciplines.

There are two distinct features that distinguish UWM's academic programs in American Indian Studies. The Electa Quinney Institute (https://uwm.edu/eqi/) is a campus resource that facilitates the development of new programs, services, and research opportunities in partnership with the American Indian community. UWM also is home to more American Indian faculty than any other school in the UW System.

Programs
• American Indian Studies, Undergraduate Certificate (p. 721)
• Anishinaabe Language, Undergraduate Certificate (p. 722)
• Committee Interdisciplinary Major, BA: American Indian Studies (p. 723)

American Indian Studies, Undergraduate Certificate
The American Indian Studies program provides students with a thorough understanding of the Native American tribal nations in North America and their influence and impact in today's culture and society.

Our program embraces everyone interested in understanding the treaties, history, cultures, and politics that shaped the formation of North America and continue to have relevance today. While UWM does attract a number of students with Native American ancestry to the program, our classes are full of people from all types of backgrounds. They all share a common interest in understanding the past in order to impact the present. There are 565 tribal nations in the U.S., and 12 are located in the state of Wisconsin. UWM is a national driving force in this academic area because of our location; we have the most Native American faculty of any other UW school in Wisconsin.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility
The American Indian Studies Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.
Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.0, at least 18 credits in approved American Indian Studies courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, nine must be taken at the 300 level or above. 12 of the 18 required credits must be in the College of Letters and Science, with at least 6 of these at the 300 level or above. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on the American Indian experience may be accepted with the approval of the Certificate Program Coordinator. If the core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the Certificate Program Coordinator to accept another course in its stead. Other courses not on this list but relevant to the study of American Indians may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 101</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 15 credits from the list of approved courses</td>
<td>15</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1 Students may petition the AIS Coordinator for approval of appropriate courses not on the approved list.

Approved Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture</td>
<td>3</td>
</tr>
<tr>
<td>AIS 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AIS 161</td>
<td>First-Semester Indigenous Languages of Wisconsin:</td>
<td>4</td>
</tr>
<tr>
<td>AIS 162</td>
<td>Second-Semester Indigenous Languages of Wisconsin:</td>
<td>4</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 225</td>
<td>The Aztec Empire</td>
<td>3</td>
</tr>
<tr>
<td>AIS 251</td>
<td>Third Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 252</td>
<td>Fourth Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS/HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Associate Professor Michael Wilson, michael@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/american-indian-studies/certificate/

Anishinaabe Language, Undergraduate Certificate

The Certificate in Anishinaabe Language (also known as Ojibwe) at UWM is an academic program that provides students with academic inquiry into Anishinaabe Language and culture.

The Anishinaabe language is spoken by the tribes of the Three Fires Confederacy: the Ojibwe, Odawa, and Potawatomi who share an origin story of migrating together to the western Great Lakes prior to European contact. The peoples of these three related tribes today live in Manitoba, Michigan, Minnesota, Ontario and Wisconsin on more than 80 U.S. or Canadian recognized reservations and offer job opportunities, particularly in education, for individuals who have proficiency in Anishinaabe language.

Anishinaabemowin is today considered an “endangered language” due to the historical implementation of federal policies on both sides of the border that attempted to promote English-only education in federal boarding schools. Children were punished for speaking their birth language. However, Anishinaabe is also one of the North American Indian
languages that, due to the number of remaining speakers and intensive language programs in tribal communities, is expected to survive through the 21st century.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility
The program is open to all student's seeking a bachelor’s degree from UWM, to students who previously earned a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in the subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

Requirements
To obtain the certificate, the student must complete 25 credits in approved courses as indicated below with a minimum grade point average of 2.500. Twelve of these credits must be earned in residence at UWM, including nine at the 300 level and above. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 151</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>AIS 152</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>AIS 251</td>
<td>Third Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 252</td>
<td>Fourth Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
</tbody>
</table>

Cultural Competency

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS/HIST 473</td>
<td>History of Wisconsin Indians</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 360</td>
<td>Ezhi-Kinomaageying: Anishinaabe Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>AIS 370</td>
<td>Anishinaabebiige: Archival to Contemporary Writing</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 637</td>
<td>World Language Methods and Materials</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Margaret Noodin, noodin@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor

Additional Information
(414) 229-7711 or let-sci@uwm.edu

Committee Interdisciplinary Major, BA: American Indian Studies

This program is not currently accepting new students.

This program is not currently accepting new students. The Committee Interdisciplinary Major with a focus in American Indian Studies provides students with a thorough understanding of the Native American tribal nations in North America and their influence and impact in today's culture and society.

Our program embraces everyone interested in understanding the treaties, history, cultures, and politics that shaped the formation of North America and continue to have relevance today. While UWM does attract a number of students with Native American ancestry to the program, our classes are full of people from all types of backgrounds. They all share a common interest in understanding the past in order to impact the present.

The curriculum develops the depth of students’ experience with the methodologies and sources used in the field of American Indian Studies. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. Students majoring in American Indian Studies can select from a wide variety of courses organized under three areas:

- Culture and Creative Expression
- History, Law, and Government
- Education and Community Policy Studies

There are 565 tribal nations in the US, and 12 are located in the state of Wisconsin. UWM is a national driving force in this academic area because of our location; we have the most Native American faculty of any other UW campus in Wisconsin.

Students in our program will receive lots of personalized attention and will find support and camaraderie in groups and events like our American Indian Student Services office and our annual Pow Wow. The personalized nature of our program is also reflected in the capstone research project, planning for which begins in junior year. Students will work with a faculty member to complete a capstone research project which focuses on that student's particular niche interest in the field of American Indian Studies.

This program is not currently accepting new students.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they...
entered. Credits used to satisfy the major also may be used to satisfy
other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to ENGLISH 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1) Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.
Diversity (CD/+) designation, L&S students must complete the Breadth (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

Along with completing the University General Education Requirements of 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

Complete 3 credits in a course with Cultural Diversity (CD) designation.

Students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

Complete 9 credits in upper-division (numbered 300 or above) courses in their major.

Complete 33 credits in approved American Indian Studies-related courses. Of these 33 credits, 15 credits in advanced-level courses numbered (300 and above) must be completed in residence at UWM. The College of Letters and Science requires that students earn at least a 2.0 GPA on all credits attempted for the major at UWM. In addition, a 2.0 GPA on all major credits, including any transfer work, is required.
The major curriculum is developed around a core of 15 credits that includes an introduction to the field, two focus courses, and six credits in research and practice. The focus courses are designed to ensure that students accomplish study in major areas related to the experience of American Indian tribal societies and communities. Beyond that, students are encouraged to shape their own programs to meet individual needs and interests through the required field/research capstone project and the selection of elective courses. The capstone research topic will be focused on a student's particular interest area and will begin in the junior year. The project will be approved and supervised by a faculty member who will guide the student's research, service project, or applied project through to formal evaluation by a committee of faculty members. A formal field project paper will be presented to the committee.

### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 101</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 600</td>
<td>Field Project - Capstone Research or Applied Project</td>
<td>3</td>
</tr>
</tbody>
</table>

### American Indian Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture</td>
<td>3</td>
</tr>
<tr>
<td>AIS 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AIS 151</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td>4</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Third Semester Anishinaabemowin (Ojibwe)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 251</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AIS 252</td>
<td>Fourth Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 360</td>
<td>Ezhi-Kinomaageying: Anishinaabe Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>AIS 370</td>
<td>Anishinaabebejig: Archival to Contemporary Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

### Jointly Offered

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS/HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 276</td>
<td>Introduction to American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 308</td>
<td>Archaeology of North America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>AIS/SOCIOL 320</td>
<td>Contemporary Issues of the American Indian</td>
<td>3</td>
</tr>
</tbody>
</table>

### Cross-Listed

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS/ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 473</td>
<td>History of Wisconsin Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 474</td>
<td>Topics in North American Indian History:</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 475</td>
<td>American Indian History, Law, and Government</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 520</td>
<td>Studies in American Indian Literature:</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 632</td>
<td>Seminar in American Indian Literature:</td>
<td>3</td>
</tr>
</tbody>
</table>

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the College of Letters and Science

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.50 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Michael Wilson, michael@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/american-indian-studies/undergraduate/

Ancient Mediterranean Studies, Undergraduate Certificate

As of Fall 2018, the Ancient Mediterranean Studies certificate program has suspended admission. This means that unless you have been accepted into this degree program prior to Fall 2018, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Ancient Mediterranean Studies certificate program prior to Fall 2018.

Requirements

While the program requires some study of the ancient languages, proficiency in Latin and Greek is not required for certification. Students, however, may obtain a certificate in Ancient Mediterranean Studies with Language Proficiency if they complete, as part of or in addition to the certificate requirements, 9 credits in Latin or Greek courses numbered 300 and above or pass a proficiency exam. Students also are encouraged to take advantage of the opportunities for study abroad, including fieldwork in archaeology, which may be used to fulfill certificate requirements. Students must achieve a grade point average of 3.000 or higher in the courses that satisfy the Program requirements, and all such courses must be graded rather than taken on a credit/no credit basis. Of the 24 required credits, at least 9 credits must be taken at the advanced level (numbered 300 and above) in residence at UWM. At least 12 credits must be taken in courses in the College of Letters and Science, with at least 6 of these at the advanced level.

Students enrolled in the Certificate in Ancient Mediterranean Studies (CAMS) Program must complete a minimum of 24 credits, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
</tbody>
</table>

Guidelines for Substitutions

Generally, substitutions for core requirements will not be allowed except in cases when an equivalent course has been taken at another university. In such cases, the student must petition the CAMS advisory committee and provide the following documentation: a formal statement of justification, a syllabus, and a transcript.

Approved Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 307</td>
<td>World Archaeology: Foundations of Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 220</td>
<td>Introduction to Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 312</td>
<td>Minoan and Mycenaean Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>Art and Archaeology of Ancient Egypt</td>
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<td>ARTHIST 316</td>
<td>Roman Art and Archaeology</td>
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<td>ARTHIST 324</td>
<td>Early Christian and Byzantine Art and Architecture</td>
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<td>ARTHIST 327</td>
<td>Caliphs, Emirs, &amp; Kings: Art &amp; Architecture of Medieval Spain</td>
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<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
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<td>Greek Sculpture</td>
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<td>Advanced Topics in Celtic Studies: (The Archaeology of Ireland or The Archaeology of Britain)</td>
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<td>CLASSIC 101</td>
<td>Words Matter: How Greek and Latin Shape Our Language</td>
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<tr>
<td>CLASSIC 170</td>
<td>Classical Mythology</td>
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<td>CLASSIC 171</td>
<td>Classical Mythology: An Audio-Visual Supplement</td>
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<td>CLASSIC 192</td>
<td>First-Year Seminar: (Ancient Greek and Roman Love Poetry)</td>
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<td>Introduction to Greek Life and Literature</td>
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<td>Study Abroad: (Cultural Diversity of Ancient Campania)</td>
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<td>CLASSIC 299</td>
<td>Ad Hoc: (Egyptian Hieroglyphics or Jason and Medea)</td>
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<td>CLASSIC 301</td>
<td>The Life and Literature of Classical Athens: Herodotus and Dramatists</td>
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<td>CLASSIC 302</td>
<td>War and Politics in Ancient Greece</td>
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<td>The Graeco-Roman World:</td>
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<td>CLASSIC 351</td>
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<td>CLASSIC 370</td>
<td>Hittite Myth and History</td>
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<td>CLASSIC 390</td>
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<td>COMPLIT 207</td>
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<td>The Ancient World: The Roman Republic and Empire</td>
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<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
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<td>A History of Greek Civilization: The Greek City-State</td>
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<td>A History of Greek Civilization: The Age of Alexander the Great</td>
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<td>HIST 307</td>
<td>A History of Rome: The Age of Alexander the Great</td>
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<td>A History of Rome: The Empire</td>
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<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (Judaism in the Ancient World, Paganism in the Ancient World, or Early Christianity)</td>
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<td>Topics in European History: (Rome in the Age of Constantine – Society and Culture)</td>
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<td>JEWISH 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
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<td>The Dead Sea Scrolls and the Bible</td>
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<td>Readings in Latin Poetry:</td>
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<td>LATIN 508</td>
<td>Latin Prose Composition</td>
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<td>LATIN 699</td>
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<tr>
<td>LINGUIS 211</td>
<td>Origins of Words</td>
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<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
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<td>PHILOS 551</td>
<td>Aristotle</td>
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<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: (Aristotle’s Natural Philosophy)</td>
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</tbody>
</table>

**Contact Information**

Current Students contact Associate Professor Elisabetta Cova, covae@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at

(414) 229-7711 or let-sci@uwm.edu
Anthropology

Anthropology is the study of human beings and their cultures, past and present, throughout the world. The discipline examines and compares the world’s culture patterns in all their variety and studies humans as biological organisms. Through archaeology, it attempts to shed light on the long history and evolution of humans and their ways of life. In these pursuits, anthropologists favor comparative and evolutionary perspectives. As a result, anthropological studies are wide-ranging with respect to topic and far-reaching with respect to both space and time.

Programs

- Anthropology, BA (p. 729)
- Anthropology, Minor (p. 734)
- Anthropology, MS (p. 735)
- Anthropology, MS/Library and Information Science, MLIS (p. 737)
- Anthropology, PhD (p. 738)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 739)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 740)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 741)
- Museum Studies, Graduate Certificate (p. 742)

Faculty

<table>
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<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Fred Anapol</td>
<td>Professor</td>
<td>PhD</td>
<td>Harvard University</td>
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<tr>
<td>Kalman Appelbaum</td>
<td>Professor</td>
<td>PhD</td>
<td>Harvard University</td>
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<tr>
<td>Ingrid Jordt Appelbaum</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Harvard University</td>
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<tr>
<td>Bettina Arnold</td>
<td>Professor</td>
<td>PhD</td>
<td>Harvard University</td>
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<tr>
<td>Erica Bornstein</td>
<td>Associate Professor</td>
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<td>University of California, Irvine</td>
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<tr>
<td>Paul Brodwin</td>
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<tr>
<td>Benjamin Campbell</td>
<td>Associate Professor</td>
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<tr>
<td>J. Patrick Gray</td>
<td>Professor</td>
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<tr>
<td>Sidney M. Greenfield</td>
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<tr>
<td>Tracey Heatherington</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Jean Hudson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Santa Barbara</td>
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<tr>
<td>Robert J. Jeske</td>
<td>Professor</td>
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<td>Northwestern University</td>
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<td>Donald Kurtz</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Thomas Malaby</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>Harvard University</td>
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<td>Emily Middleton</td>
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<tr>
<td>Brian Nicholls</td>
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<td>John D. Richards</td>
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<td>Patricia Richards</td>
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<tr>
<td>Trudy Turner</td>
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<td>William Washabaugh</td>
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<td>Edward Wellin</td>
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<tr>
<td>W. Warner Wood</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois at Champaign-Urbana</td>
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Anthropology, BA

Anthropology is the scientific study of human beings and their cultures across time and space. In the broadest sense, anthropology is about how the human species came to be, how it developed myriad ways of living in the world, and how those ways may change in the future. It is the major most closely associated with archaeology.

Anthropology is a unique field that combines elements of social science and natural science. Students will find themselves in all types of settings - out in the field collecting physical samples, in a lab analyzing fossils and specimens, interviewing individuals and groups to collect oral histories, in the library and community researching, and in the classroom learning how to fit all of the pieces of evidence into a cohesive theory.

Students at UWM will be exposed to all types of anthropological work. Some may find themselves more drawn to the "people" side of
things and gravitate more towards electives that focus on culture and societal structures. Social anthropologists may examine issues such as workplace behavior, religious rituals, art, family structures or gender relations. Others may find linguistic anthropology - the study of the development of languages - more interesting. Students who have always envisioned themselves digging up artifacts will find archaeology or biological anthropology of most interest.

Regardless of specialization, hands-on experience is critical. UWM offers all types of field experience and research opportunities, locally and at spots around the globe.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<th>Code</th>
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<td><strong>Part A</strong></td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<td><strong>Quantitative Literacy</strong></td>
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<td><strong>Part A</strong></td>
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<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
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<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
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<tr>
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<td>Introduction to College Algebra</td>
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<td>Introduction to Logic - Critical Reasoning</td>
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<tr>
<td>or PHILOS 111</td>
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<td>MATH 116</td>
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<td>Or equivalent course</td>
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<td><strong>Part B</strong></td>
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Select 3 credits

**Humanities**
Select 6 credits

**Social Sciences**
Select 6 credits

**Natural Sciences**
Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
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<tr>
<th>Code</th>
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<td>College Algebra</td>
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Or equivalent course

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
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<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
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</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
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<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
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**Note:** This requirement is *NOT* the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. *Not all of the courses listed here will satisfy the QL-B requirement.*

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including
Anthropology Major Requirements

Students majoring in anthropology can select from a wide variety of courses organized under three subfields:

- Sociocultural Anthropology
- Archaeology
- Biological Anthropology

Although majors take some coursework in each of the three subfields, they are encouraged to shape their own programs to meet individual needs and interests. Students majoring in anthropology must earn a GPA of 2.0 or better in anthropology courses attempted at UWM. In addition, the College of Letters and Science requires that students attain a 2.0 GPA in all credits in the minor attempted at UWM. The major in anthropology requires 36 credits within the department. At least 15 credits in advanced-level courses (numbered 300 or above) must be taken in residence at UWM.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Methods Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 497</td>
<td>Study Abroad</td>
<td>1-12</td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 535</td>
<td>Analysis of Archaeological Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation</td>
<td>3-6</td>
</tr>
<tr>
<td>ANTHRO 567</td>
<td>Archaeological Field School</td>
<td>3-6</td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

1 This course may also satisfy a research and/or subfield requirement in the Anthropology major. However, no single course may count for more than two requirements.

Research Requirement Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 401</td>
<td>Primate Populations</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 497</td>
<td>Study Abroad</td>
<td>1-12</td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td>3</td>
</tr>
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<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation</td>
<td>3-6</td>
</tr>
</tbody>
</table>

1 This course may also satisfy a methods and/or subfield requirement in the Anthropology major. However, no single course may count for more than two requirements.

Three Anthropology Subfields

Biological Anthropology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 301</td>
<td>Human Evolution and Variation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 401</td>
<td>Primate Populations</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 402</td>
<td>Primate Evolution</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Human Biological Variation</td>
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<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 406</td>
<td>Evolutionary Biology &amp; Human Diseases</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 407</td>
<td>Neuroanthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 408</td>
<td>Hormones and Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

1 This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.
**Archaeology**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 304</td>
<td>Violence and Warfare in Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
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<td>ANTHRO 308</td>
<td>Archaeology of North America</td>
<td>3</td>
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<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 313</td>
<td>Archaeology of the American Southwest</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 420</td>
<td>Power and Ideology in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 421</td>
<td>Cities in the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 424</td>
<td>Ethnoarchaeology and Experimental Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 425</td>
<td>Hunter-Gatherer Lifeways: Past and Present</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 426</td>
<td>Who Owns the Past?</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 465</td>
<td>Historic Preservation in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 466</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 501</td>
<td>Archaeology of Death</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 502</td>
<td>Lithic Analysis: Stone Tools and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td>3</td>
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<td>ANTHRO 535</td>
<td>Analysis of Archaeological Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 565</td>
<td>Seminar in Regional Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 636</td>
<td>Geochronology</td>
<td>3</td>
</tr>
</tbody>
</table>

1  This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.
Anthropology, Minor

Anthropology is the scientific study of human beings and their cultures across time and space. In the broadest sense, anthropology is about how the human species came to be, how it developed myriad ways of living in the world, and how those ways may change in the future. It is the major most closely associated with archaeology.

Anthropology is a unique field that combines elements of social science and natural science. Students will find themselves in all types of settings - out in the field collecting physical samples, in a lab analyzing fossils and specimens, interviewing individuals and groups to collect oral histories, in the library and community researching, and in the classroom learning how to fit all of the pieces of evidence into a cohesive theory.

Students at UWM will be exposed to all types of anthropological work. Some may find themselves more drawn to the "people" side of things and gravitate more towards electives that focus on culture and societal structures. Social anthropologists may examine issues such as workplace behavior, religious rituals, art, family structures or gender relations. Others may find linguistic anthropology - the study of the development of languages - more interesting. Students who have always envisioned themselves digging up artifacts will find archaeology or biological anthropology of most interest.

Regardless of specialization, hands-on experience is critical. UWM offers all types of field experience and research opportunities, locally and at spots around the globe.

Requirements

The anthropology minor requires 18 credits within the department, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 101</td>
<td>Introduction to Anthropology: Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>9 credits at the 300-level or above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>18</td>
</tr>
</tbody>
</table>

Students must earn 9 credits in advanced-level courses (numbered 300 or above) taken in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. If the student is interested in transitioning from a minor to a major, courses that satisfy the methods and/or research requirements in the major have been marked in the subfield tables below.

Three Anthropology Subfields

Biological Anthropology

<table>
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<tr>
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<td>Primate Populations</td>
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Archaeology

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<td>ANTHRO 421</td>
<td>Cities in the Ancient World</td>
<td>3</td>
</tr>
</tbody>
</table>

1 This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

Contact Information

Current Students contact Associate Professor Jean Hudson, jhudson@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/anthropology/undergraduate/

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

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http://uwm.edu/anthropology/undergraduate/
This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

### Sociocultural Anthropology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 328</td>
<td>Comparative Studies of Music, Race, and Gender in Nationalism</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 335</td>
<td>American Indians of the Southeast</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 340</td>
<td>Cultures of Online Games and Virtual Worlds</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 351</td>
<td>Anthropological Theories of Religion</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 354</td>
<td>Anthropology, Aesthetics, and Art</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 400</td>
<td>Human Sociobiology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 439</td>
<td>Culture and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 442</td>
<td>Humanitarianism in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 445</td>
<td>Psychological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 446</td>
<td>The Child in Different Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 449</td>
<td>The Human Economy</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 450</td>
<td>Political Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 540</td>
<td>Applications of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 544</td>
<td>Religious Giving in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 549</td>
<td>Ethnography of Institutions</td>
<td>3</td>
</tr>
</tbody>
</table>

### Contact Information

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### Anthropology, MS

The Department of Anthropology offers programs of graduate study designed to provide a broad background in all significant facets of the discipline—biological as well as cultural, analytic as well as descriptive—while still encouraging specialization. It provides training both for students interested in an academic career in anthropology and for those concerned with practical issues approached from the integrative perspective of anthropology.

The department, in cooperation with the Milwaukee Public Museum, also offers a program leading to a Certificate in Museum Studies. The Milwaukee Public Museum, the fourth largest natural history museum in the country, is the site for methods courses that provide the student practical experience in museum work and for courses in the history and theory of museum exhibits. Each student’s program of studies includes training in anthropological theory and methods, issues and problems in cultural anthropology, archaeology, anthropological linguistics and physical anthropology, as well as topics that focus on the student’s area of particular interest.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in anthropology comparable to that at UWM.
2. Three letters of recommendation.
3. A writing sample such as a relevant term paper, article submission, etc.
4. Submission of scores from the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).

Applicants without an undergraduate major in anthropology can meet the first requirement in either of two ways:

1. By having completed junior-level courses in three of the four subfields of anthropology (archaeology, biological anthropology, cultural anthropology, or linguistics) with grades of B or better. These courses may be taken at any accredited college or university if they were not part of the applicant’s undergraduate career. Applicants also may...
take them as special students at UWM. Applicants planning to take such courses should check with the Director of Graduate Studies to verify that the courses will be acceptable.

2. Applicants lacking courses in anthropology may be admitted to the program and be allowed to take the core classes and advanced seminars without deficiencies under certain conditions. For example, an applicant with an outstanding GPA or very high GRE scores who has an undergraduate major closely related to his or her proposed field of specialization could be admitted under this option.

Application deadlines for admission to the program are January 15th for the following Fall semester and September 15th for the following Spring semester. Applicants requesting financial assistance may have other deadlines to be considered eligible. Contact the department’s Director of Graduate Studies for specific financial aid deadlines.

Credits and Courses

Students in the Master’s degree program in Anthropology are required to take a minimum of 30 credits, 15 of which must be obtained in courses numbered 700 or above. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page).

**Archaeology Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Methods**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- ANTHRO 380 Archaeological Applications of GIS
- ANTHRO 501 Archaeology of Death
- ANTHRO 525 Zooarchaeology: Analysis of Faunal Remains
- ANTHRO 535 Analysis of Archaeological Ceramics
- ANTHRO 562 Techniques and Problems in Archaeology
- ANTHRO 566 Archaeological Analysis and Report Preparation:
- ANTHRO 567 Archaeological Field School
- ANTHRO 768 Topics in Advanced Research Design in Anthropology

**Advanced Seminar**

- ANTHRO 940 Seminar in Problems in Cultural Anthropology

**Electives**

Select 12 credits

Total Credits 30

---

**Biological Anthropology Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
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</tbody>
</table>

**Methods**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

**Advanced Seminar**

- ANTHRO 940 Seminar in Problems in Cultural Anthropology

**Electives**

Select 12 credits

Total Credits 30

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the PhD program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the...
Graduate School and a signed, unbound "hard" copy to the Department of Anthropology.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student selects an advisor, in consultation with the Director of Graduate Studies, by the end of the first semester of the program.

Thesis Defense
The student must pass an oral thesis defense. The examination committee must consist of at least three individuals, with a majority being members of the Anthropology Department.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Anthropology, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MS Anthropology
The MLIS/MS Anthropology Coordinated Degree Program (51 credits) prepares students for positions as curators of museum libraries, and as information specialists and researchers for local history collections and state historical societies.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Degree Requirements
Students enrolled in this program concurrently pursue the MS degree in Anthropology (p. 735) (21 credits in Anthropology—9 fewer elective credits) and the MLIS degree (p. 677) (30 credits in SOIS). Candidates for the coordinated degree program will be expected to fulfill the degree requirements of both programs. Degrees will be awarded simultaneously.

Credits and Courses
Students in the Master's degree program in Anthropology are required to take a minimum of 30 credits, some of which are obtained by taking required courses. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page).

Archaeology Concentration

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</tbody>
</table>

Methods

<table>
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<tr>
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<tbody>
<tr>
<td>ANTHRO 568</td>
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Select one of the following: 3

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<tbody>
<tr>
<td>ANTHRO 380</td>
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<td>Analysis of Archaeological Ceramics</td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
</tr>
<tr>
<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation:</td>
</tr>
<tr>
<td>ANTHRO 567</td>
<td>Archaeological Field School</td>
</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
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</table>

Or an alternative approved by the advisor and the Director of Graduate Studies

Advanced Seminar

<table>
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<tr>
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<tr>
<td>ANTHRO 763</td>
<td>Professionalism in Anthropology</td>
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Electives

Select 12 credits

Total Credits: 30

Biological Anthropology Concentration

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</table>

Methods
### Core Courses

<table>
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</tr>
</tbody>
</table>

### Methods

Select two of the following: 6

- ANTHRO 560 Introduction to Research Methods in Anthropology
- ANTHRO 561 Techniques and Problems in Ethnography
- ANTHRO 568 Introduction to Anthropological Statistics

### Electives

Select 12 credits

### Important

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

### Anthropology, PhD

The Department of Anthropology offers programs of graduate study designed to provide a broad background in all significant facets of the discipline—biological as well as cultural, analytic as well as descriptive—while still encouraging specialization. It provides training both for students interested in an academic career in anthropology and for those concerned with practical issues approached from the integrative perspective of anthropology.

The department, in cooperation with the Milwaukee Public Museum, also offers a program leading to a Certificate in Museum Studies. The Milwaukee Public Museum, the fourth largest natural history museum in the country, is the site for methods courses that provide the student practical experience in museum work and for courses in the history and theory of museum exhibits. Each student’s program of studies includes training in anthropological theory and methods, issues and problems in cultural anthropology, archaeology, anthropological linguistics and physical anthropology, as well as topics that focus on the student’s area of particular interest.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (https://uwm.edu/onestop/dates-and-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School (https://uwm.edu/graduateschool/admission/) requirements plus the following departmental requirements to be considered for admission to the program:

1. A general master’s degree in anthropology or equivalent preparation without the master’s degree. An applicant with a master’s degree in another field may be admitted if the student has a grade point average of 3.0 (4.0 scale) in graduate work and is approved by the departmental Graduate Admissions Committee.
2. Three letters of recommendation.
3. A writing sample such as a relevant term paper, article submission, etc.
4. Submission of scores from the General Test of the Graduate Record Examination (https://uwm.edu/graduateschool/admission/#gre).

Applicants are accepted into the PhD program only if a faculty member agrees to serve as major professor. Applicants are encouraged to contact the faculty member they wish to work with prior to applying to the program.

### Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
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</table>

### Other MLIS courses

<table>
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<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>
program. The applicant’s statement of purpose should identify his or her proposed major professor.

Application deadlines for admission to the program are January 15th for the following fall semester and September 15th for the following spring semester. Applicants requesting financial assistance may have other deadlines to be considered eligible. Contact the department’s graduate advisor for specific financial aid deadlines.

Reapplication
A student who receives the master’s degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses
Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM. A student lacking any of the courses (or equivalents taken elsewhere) required to attain a Master's degree in his/her major area of concentration must complete these courses as part of his/her PhD work.

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<td>Analysis of Archaeological Ceramics</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 560</td>
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<td></td>
</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
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<td></td>
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<tr>
<td>ANTHRO 566</td>
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<td>ANTHRO 568</td>
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</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
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</tbody>
</table>

Other courses with the approval of the advisor and Director of Graduate Studies

Advanced Seminar
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 940</td>
<td>Seminar in Problems in Cultural Anthropology.</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 942</td>
<td>Seminar in Prehistory and Archaeology</td>
<td></td>
</tr>
</tbody>
</table>

Other courses with the approval of the advisor and Director of Graduate Studies

Foreign Language/Specialization

A foreign language or specialized scholarly skill

<table>
<thead>
<tr>
<th>Total Credits</th>
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</thead>
<tbody>
<tr>
<td>15</td>
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</tbody>
</table>

Foreign Language or Specialized Scholarly Skill
The candidate may satisfy this requirement by demonstrating one of the following:

- Proficiency in a foreign language useful in the student's career.
- Proficiency in mathematical, statistical, or computer skills.
- Proficiency in other skills that meet departmental approval.

Additional Requirements

Doctoral Preliminary Examination and Dissertation Proposal Defense
The candidate must pass an oral doctoral preliminary examination as one of the qualifications for achieving dissertator status. Candidates choose two to four topics in consultation with their advisor for the Preliminary Examination. The topics must be broader than, but related to, the focus of the candidate’s proposed dissertation research. The topics must be approved by the Department's Graduate Studies Committee and the Department faculty. The preliminary examination must be passed within five years of initial enrollment for a student to be eligible to continue in the program.

The candidate must pass a formal dissertation proposal hearing prior to starting dissertation research.

Dissertation
The candidate must prepare a dissertation reporting in the candidate's own style the results of an original research investigation representing a substantive creative contribution.

The dissertation must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the dissertation to the Graduate School and a signed, unbound “hard” copy to the Department of Anthropology.

Dissertation Defense
As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation.

Residence
The student must meet minimum Graduate School residence requirements.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train
students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.50 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610 or HCA 212</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Drugs Used and Abused</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<td><strong>24</strong></td>
</tr>
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</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
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<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
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</table>

Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.50 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.
The following courses must be completed successfully to obtain a Certificate in Forensic Science:

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<td>CRM JST 594</td>
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<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
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<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
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</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
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</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM JST 281</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 589</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
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<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. These courses are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate must maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering in the certificate programs, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM JST 589</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
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<td>1-3</td>
</tr>
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<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
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<td>Instrumental Analysis</td>
<td>3</td>
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<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>
Museum Studies, Graduate Certificate

The Museum Studies Program was established in 1963 as a cooperative venture between UW-Milwaukee and the Milwaukee Public Museum. The goal of the program is to provide, in a museum environment, the basic scholarship and functional training to equip the student with the skills necessary to assume professional entry-level museum positions in:

- museums
- galleries
- archives
- historical societies
- related institutions

Coursework is structured to develop a high degree of professionalism and responsibility, skills in problem solving, critical thinking and evaluation, writing, oral presentation, decision-making, and teamwork.

The program stresses professional museum standards and ethics and proper care and interpretation of collections while providing the opportunity for the development of expertise and special skills. The program is designed to be practical and realistic.

The Certificate in Museum Studies must be completed in conjunction with a UW-Milwaukee graduate degree program. The certificate is designed to supplement a student’s graduate discipline and assumes that each student will have a firm footing in his/her academic field.

The program is listed and administered through the Anthropology Department at UW-Milwaukee and taught off-campus at the Milwaukee Public Museum (MPM) by museum professionals. All applicants to the Museum Studies certificate program must comply with a background check as required by Milwaukee Public Museum policy. Individuals with criminal records cannot be admitted to the program.

Regular individual academic advising and career planning are important features of the program. The majority of graduates of the program find a paid position in a museum within one year of graduation. Graduates of the program have assumed responsibilities in museums and related institutions across the country as directors, curators, collections managers, registrars, educators, and more.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

The certificate program consists of a minimum of 15 credits at the graduate level. ANTHRO 620 is the required gateway course for the certificate, but may be taken prior to admission to the certificate program for undergraduate credit. If ANTHRO 620 is taken for undergraduate credit, then 15 graduate credits are required for the certificate. If ANTHRO 620 is taken at the graduate level, a total of 18 credits are required for the certificate.

In all cases, the course prerequisites will be enforced, as the curriculum is sequenced.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 620</td>
<td>Museum Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 621G</td>
<td>Internship in Museum Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 720</td>
<td>History and Theory of Museums</td>
<td>2</td>
</tr>
<tr>
<td>ANTHRO 721</td>
<td>Administration and Organization of Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 722</td>
<td>Visitor Experience Design in Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 723</td>
<td>Museum Collections Management and Curation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 725</td>
<td>Professionalism Capstone in Museum Studies</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 18

1 With approval of the program director an elective may be substituted for 621.

Anthropology, Art History, History, and Educational Psychology all offer courses that supplement the Museum Studies curriculum and such courses will count as electives. The structure and scheduling of the coursework requires at least two years for completion, since each course is taught only once a year and courses must be taken in sequence.
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
Sabin, 304
Phone: (414) 229-6323
woodw@uwm.edu
https://uwm.edu/museum-studies/

Art History
The history of art is the study of humanity’s efforts to express its ideas, experiences, and beliefs in visual and graphic form: in painting, sculpture, architecture, graphic art, design, film, and performance arts. It also is the historical study of the attempt to reorder the physical environment through urban and architectural planning. Courses in the Department of Art History are designed to train students to deal with such studies in the context of the cultural, social, political, economic, and religious climates of different historical eras, as well as to foster an understanding of the specific development, materials, theory, and parameters of art. Internships and colloquia in art museum studies afford qualified students more specialized experience in connoisseurship, curatorial practices, and arts management.

Students in Art History at UWM have unique access to thousands of pieces of artwork. The Emile H. Mathis Art Gallery contains over 7,000 objects covering Western and non-Western art and spanning a time frame from ancient to contemporary art. Notable artists represented in the Gallery include Jean Arp, Joan Miro, Henry Moore, Victor Vasarely, Alexander Calder, and Pablo Picasso. Check out the video of the Mathis Gallery (https://www.youtube.com/watch?v=7CfnKGnwnOQ).

Programs
- Art History, BA (p. 744)
- Art History, MA (p. 748)
- Art History, MA/Library and Information Science, MLIS (p. 749)
- Art History, Minor (p. 750)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Aschenbrenner</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jocelyn Boor</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarah Anne Carter</td>
<td>Visiting Staff Professor</td>
<td>PhD</td>
<td>Harvard University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derek Counts</td>
<td>Professor</td>
<td>PhD</td>
<td>Brown University</td>
<td></td>
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</tr>
<tr>
<td>Jennifer Johung</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Richard Leson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
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<tr>
<td>David Pacifico</td>
<td>Assistant Professor and</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
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<tr>
<td></td>
<td>Director, Emile H. Mathis</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gallery and UWM Art</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Collection</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarah Schaefer</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Columbia University</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Tanya Tiffany</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>
Art History, BA

Students interested in examining history through the lens of paintings, sculptures, film, architecture, graphics, and decorative arts will find Art History to be an ideal major. Throughout time, humans have expressed their emotions, beliefs, and ideals through these mediums, and today's students can use these objects to understand culture, society, politics, economies, and religions and apply the lessons learned to modern issues.

What can you do with an Art History major? The answer turns out to be quite a bit. Art History majors follow a variety of career paths, and their skills are applicable to many types of jobs. Popular careers include teacher or professor, museum or gallery curator, art dealer, arts administrator, art appraiser, and historic preservation consultant, some of which require education beyond a bachelor's degree. Other students choose to branch out into related fields that require a broad knowledge of culture and communication such as journalism, law, marketing, administration, interior design, photography, library science, and cultural/heritage studies. Much of what happens after college depends on what a student does during college. A student who wants to work in a gallery should ensure the s/he gains hands-on experience during college through internships, volunteer work, and part-time jobs. Experiential learning is critical — it grounds what a student learns in the classroom with the real world.

Students who are more interested in the production of art (such as becoming a film maker or artist) should explore the majors offered through UWM's Peck School of the Arts (p. 74).

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A

Achieve a grade of C or better in one of the following:

| MATH 102 | Mathematical Literacy for College Students II |
| MATH 103 | Contemporary Applications of Mathematics     |
| MATH 105 | Introduction to College Algebra              |
| MATH 108 | Algebraic Literacy II                        |
| MATH 111 | Introduction to Logic - Critical Reasoning   |
| PHIL 111 | Introduction to Logic - Critical Reasoning   |
| MATH 116 | College Algebra                              |

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>or PHILOS 11</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

### IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+), designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select 3 credits</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

**

Natural Sciences

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

**

Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation.

**

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Art History Major Requirements

The major in art history consists of 30 credits in the department.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 104</td>
<td>African, New World and Oceanic Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>or ARTHIST 105</td>
<td>Asian Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>L&amp;S research requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 501</td>
<td>Colloquium in Method and Theory ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

3 credits in each of 5 of 6 Art Historical areas: Ancient, Medieval, Renaissance/Baroque, Modern (19th/20th Century), Non-Western, Film. At least 12 of 15 credits must be at 300 level or above.

Ancient

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 210</td>
<td>The Art and Architecture of the First Cities: A Global Perspective</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 312</td>
<td>Minoan and Mycenaean Art and Archaeology</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 313</td>
<td>Greek Art and Archaeology</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 314</td>
<td>Art and Archaeology of the Ancient Near East</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 316</td>
<td>Roman Art and Archaeology</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 413</td>
<td>Greek Sculpture</td>
<td></td>
</tr>
</tbody>
</table>

 Medieval

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 220</td>
<td>Introduction to Medieval Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 324</td>
<td>Early Christian and Byzantine Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 325</td>
<td>Early Medieval Art in the West</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 327</td>
<td>Caliphs, Emirs, &amp; Kings: Art &amp; Architecture of Medieval Spain</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 329</td>
<td>Late Medieval Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 425</td>
<td>The Age of Pilgrimage and Crusade: Romanesque Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 426</td>
<td>The Age of the Great Cathedrals: Gothic Art and Architecture</td>
<td></td>
</tr>
</tbody>
</table>

Renaissance/Baroque

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 237</td>
<td>Northern Renaissance Art</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 240</td>
<td>Introduction to Prints and Printmaking: History and Techniques</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 241</td>
<td>Introduction to Baroque Art</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 255</td>
<td>Survey of Italian Renaissance Painting and Sculpture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 333</td>
<td>High Renaissance Art in Italy</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 342</td>
<td>Art and Society in Renaissance Florence</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 343</td>
<td>Art and Culture of Spain and Latin America, 1500-1750</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 351</td>
<td>English Art: 1550-1850</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 431</td>
<td>Renaissance Architecture in Italy</td>
<td></td>
</tr>
</tbody>
</table>

Modern

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 240</td>
<td>Introduction to Prints and Printmaking: History and Techniques</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 250</td>
<td>Introduction to American Art</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 261</td>
<td>Modern Art</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 349</td>
<td>American Postmodernism 1960-2000</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 353</td>
<td>American Art: Colonial Period - 1870</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 354</td>
<td>American Art: 1870 - Present</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 355</td>
<td>American Folk Art</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 357</td>
<td>Nineteenth-Century Painting in Europe</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 358</td>
<td>Modern Painting I: 1850-1900</td>
<td></td>
</tr>
</tbody>
</table>
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the Major

Art history majors who meet the following criteria are awarded honors in the major:

- A minimum 2.0 GPA is required in all ARTHIST courses attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Fifteen credits at the 300 level or above must be taken in residence at UWM.

### Letters & Science Advising

<table>
<thead>
<tr>
<th>ARTHIST 359</th>
<th>Modern Architecture I: The European Foundations of Modern Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 360</td>
<td>Modern Architecture II: The Rise of Modern Architecture</td>
</tr>
<tr>
<td>ARTHIST 361</td>
<td>Modern Architecture III: Contemporary Architecture</td>
</tr>
<tr>
<td>ARTHIST 363</td>
<td>Modern Sculpture: 1880-1945</td>
</tr>
<tr>
<td>ARTHIST 364</td>
<td>Modern Painting II: 1900 to the Present</td>
</tr>
<tr>
<td>ARTHIST 365</td>
<td>History of Photography</td>
</tr>
<tr>
<td>ARTHIST 366</td>
<td>German Painting, 1800-1933</td>
</tr>
<tr>
<td>ARTHIST 367</td>
<td>Latin American Modernisms</td>
</tr>
<tr>
<td>ARTHIST 368</td>
<td>History of Modern Design</td>
</tr>
<tr>
<td>ARTHIST 369</td>
<td>Introduction to Contemporary Art</td>
</tr>
<tr>
<td>ARTHIST 370</td>
<td>Trends in Contemporary Architecture</td>
</tr>
<tr>
<td>ARTHIST 372</td>
<td>History and Theory of New Media Art</td>
</tr>
<tr>
<td>ARTHIST 373</td>
<td>Art of Ancient Mexico and Central America</td>
</tr>
<tr>
<td>ARTHIST 375</td>
<td>Art of the Aztec Empire</td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
</tr>
<tr>
<td>ARTHIST 383</td>
<td>Japanese Art and Architecture</td>
</tr>
<tr>
<td>ARTHIST 384</td>
<td>Art and Archaeology of the Chinese Bronze Age</td>
</tr>
<tr>
<td>ARTHIST 386</td>
<td>Art, Ritual, and Ethnicity of China</td>
</tr>
<tr>
<td>ARTHIST 387</td>
<td>Buddhist Art and Architecture</td>
</tr>
<tr>
<td>ARTHIST 394</td>
<td>Maya Art</td>
</tr>
<tr>
<td>ARTHIST 400</td>
<td>Chinese Painting</td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Topics in Chinese Art:</td>
</tr>
<tr>
<td>ARTHIST 482</td>
<td>Topics in Non-Western Art:</td>
</tr>
</tbody>
</table>

### Elective

3 credits at any level

<table>
<thead>
<tr>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

1. Taken during their junior or senior year with permission from the instructor.
1. 3.500 cumulative GPA in all UWM graded credits;
2. 3.500 GPA in all credits that count toward the major;
3. 3.500 GPA in all advanced credits that count toward the major;
4. Completion of one of the following:
   • Six credits of an art historical language, at 200 level or above, with grades of B or better. Art historical language must be approved by a relevant faculty member; or
   • The Art History Department’s translation exam with passing grade
5. Completion of ARTHIST 501 with grade of A- or better

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Senior Lecturer Michael Aschenbrenner, aschenb3@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/arthistory/undergraduate/

Art History, MA
The Department of Art History offers a graduate program leading to a Master of Arts degree. The graduate program prepares students for either a career in the arts or for PhD-level work at other universities. Course offerings cover the full range of western art, including film studies and electronic arts. Non-western courses in Pre-Columbian, Asian, Islamic, and African art are also offered.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:
1. A minimum of 15 credits in Art History.
2. Two letters of recommendation from persons familiar with applicant’s academic or professional activities and potential.
3. A writing sample to the Department of Art History, for example, an undergraduate art historical term paper.
4. Strongly recommended, though not required: background in languages, history or classics. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Thesis Track: MA in Art History with an Emphasis on Methods and Criticism
Minimum degree requirement is 30 graduate credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. The 18 credits must include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 700</td>
<td>Proseminar in Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 891</td>
<td>Art Museum Internship</td>
<td>3</td>
</tr>
<tr>
<td>6 credits of ArtHist 990 Thesis Research</td>
<td>But may not include: 2</td>
<td></td>
</tr>
</tbody>
</table>

1. Must be taken in the student’s first fall semester.
2. These courses do count toward the overall 30 credit requirement for the degree.

Under special circumstances, 3 credits in 700- to 900-level work may be substituted for 3 of the 6 credits of thesis research. In addition, students may take a maximum of 6 credits of independent research (890, 891 and/or 999); however, these credits may not be taken in the first 6 credits of graduate work in the Department, and not until all deficiencies (if any) have been satisfied. Furthermore, they may not be counted toward the required 18 credits of 700- to 900-level courses. They will count, however, toward the overall number of credits needed to graduate.

Of the total 30 credits, 12 credits must be distributed across three of the following four areas: Ancient-Medieval; Renaissance-Baroque; Modern (1750-the Present including Film); and non-Western. At least 9 of these credits must be taken in courses numbered 700 or above.

The following courses may not be used to satisfy the distribution requirement, although they will count toward the overall number of credits needed to graduate:
Upon petition to the director of graduate studies, a student may be permitted to take up to 6 credits in appropriate areas outside Art History (e.g., anthropology, literature, history, music history, philosophy, film).

**Thesis**

In addition to completing all the coursework required for the degree, the student must write a thesis on a subject selected in consultation with the advisor. This study must demonstrate the student's ability to organize material and her/his familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

**Curatorial Track: MA in Art History with an Emphasis on Museums and Curatorial Practice**

Minimum degree requirement is 30 graduate credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. The 18 credits must include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 700</td>
<td>Proseminar in Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 891</td>
<td>Art Museum Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6 credits of ArtHist 991 Thesis Exhibition</td>
<td></td>
</tr>
</tbody>
</table>

* Must be taken in the student's first fall semester.

The following courses do not count toward the required 18 credits above the 700 level, but they are required for the 30 credits toward the degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 703</td>
<td>Introduction to Art Museum Studies I</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 704</td>
<td>Introduction to Art Museum Studies II</td>
<td>3</td>
</tr>
</tbody>
</table>

Under special circumstances, 3 credits in 700- to 900-level work may be substituted for 3 of the 6 credits of thesis research. In addition, students may take a maximum of 6 credits of independent research (890, 891 and/or 999); however, these credits may not be taken in the first 6 credits of graduate work in the Department, and not until all deficiencies (if any) have been satisfied. Furthermore, they may not be counted toward the required 18 credits of 700- to 900-level courses. They will count, however, toward the overall number of credits needed to graduate. All students must take the Proseminar in Art History (ArtHist 700) in their first fall semester.

Of the total 30 credits, 12 credits must be distributed across three of the following four areas: Ancient-Medieval; Renaissance-Baroque; Modern (1750-the Present including Film); and non-Western. At least 9 of these credits must be taken in courses numbered 700 or above. The following courses may not be used to satisfy the distribution requirement, although they will count toward the overall number of credits needed to graduate:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 351</td>
<td>English Art: 1550-1850</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 353</td>
<td>American Art: Colonial Period - 1870</td>
<td>3</td>
</tr>
</tbody>
</table>

Upon petition to the graduate advisor, a student may be permitted to take up to 6 credits in appropriate areas outside Art History (e.g., anthropology, literature, history, music history, philosophy, film).

**Exhibition**

The student on this curatorial track must also organize an exhibition accompanied by a scholarly catalog on a subject selected in consultation with the advisor. This exhibition must demonstrate the student's ability to organize material and her/his familiarity with relevant research methods and art historical literature. The exhibition is considered the equivalent of a formal thesis and the accompanying written work must be submitted to the Graduate School in appropriate format.

**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Graduate Advisor.

**Language Requirement**

Students must demonstrate a reading knowledge of one art historical language, e.g. French, German, Italian, Spanish or other language as appropriate. Students must take the departmental reading exam in the language of their choice at least once by the time they have completed 9 credits. If they do not pass the exam on the first attempt, they will be expected to enroll in an appropriate language course. Students may not enroll in thesis research (990) unless they have passed the language examination.

**Thesis or Exhibition**

The student must either write a thesis or organize an exhibition accompanied by a scholarly catalog on a subject selected in consultation with the advisor. This study or exhibition must demonstrate the student's ability to organize material and familiarity with research methods and art historical literature pertinent to the student's topic and area of interest. The exhibition is considered the equivalent of a formal thesis and the accompanying written work must be submitted to the Graduate School in appropriate format.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment. It is expected that a full-time student will normally complete all of the requirements for the degree within two years.

**Art History, MA/Library and Information Science, MLIS**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA Art History
The MLIS/MA Art History Coordinated Degree Program prepares students for positions as art librarians, as curators of rare books and special collections, and as archivists, registrars, and collections managers in art museums.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Art History MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

Credits and Courses
The MA in Art History normally has a minimum requirement of 30 credits from Art History courses. For the coordinated MA Art History/MLIS degree program, however, students can substitute 6 credits in Information Studies courses for 6 credits of Art History courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Art History courses as specified below.

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
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<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
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<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
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<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
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<table>
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<tr>
<th>Other MLIS courses</th>
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<tbody>
<tr>
<td>Total Credits</td>
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</table>

Art History Courses
Minimum degree requirement is 24 credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. To fulfill the Distribution Requirement, students must complete at least 3 credits in each of the following four areas 1) Ancient/Medieval, 2) Renaissance/Baroque, 3) Modern/Contemporary, and 4) Non-Western. At least 6 of these credits must be fulfilled at the 700-level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ARTHIST 700</td>
<td>Proseminar in Art History (Must be taken in the student’s first fall semester)</td>
<td>3</td>
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<tr>
<td>ARTHIST 891</td>
<td>Art Museum Internship</td>
<td>3</td>
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<tr>
<td>ARTHIST 990</td>
<td>Thesis Research</td>
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</table>

Distribution Requirement
Total Credits
24

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

Additional Requirements
Thesis
A thesis, on a subject selected in consultation with the advisor. This study must demonstrate the student’s ability to organize material and her/his familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

Language Translation Exam
The student must pass a language translation exam.

Art History, Minor
Students interested in examining history through the lens of paintings, sculptures, film, architecture, graphics, and decorative arts will find Art History to be an ideal major. Throughout time, humans have expressed their emotions, beliefs, and ideals through these mediums, and today’s students can use these objects to understand culture, society, politics, economics, and religions and apply the lessons learned to modern issues.

What can you do with an Art History minor? The answer turns out to be quite a bit.

Alumni follow a variety of career paths, and their skills are applicable to many types of jobs. Popular careers include teacher or professor, museum or gallery curator, art dealer, arts administrator, art appraiser, and historic preservation consultant, some of which require education beyond a bachelor’s degree. Other students choose to branch out into related fields that require a broad knowledge of culture and communication such as journalism, law, marketing, administration, interior design, photography, library science, and cultural/heritage studies.

Much of what happens after college depends on what a student does during college. A student who wants to work in a gallery should ensure the s/he gains hands-on experience during college through internships, volunteer work, and part-time jobs. Experiential learning is critical - it grounds what a student learns in the classroom with the real world.

Students who are more interested in the production of art (such as becoming a film maker or artist) should explore the majors offered through UWM’s Peck School of the Arts (p. 74).

Requirements
Students should declare the minor in art history after they have completed 15 degree credits, and before they have earned 75 degree
credits. A minimum 2.0 GPA must be maintained in all Art History courses attempted at UWM. In addition, students must attain a 2.0 GPA in all minor credits attempted, including any transfer work. It requires at least 18 credits in the department, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 credits in ARTHIST at the 300 level or above in residence at UWM

Select 3 additional credits in ARTHIST

Total Credits 18

Contact Information
Current Students contact Senior Lecturer Michael Aschenbrenner, aschenb3@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/arthistory/undergraduate/

Asian Studies, Undergraduate Certificate

The Asian Studies Undergraduate Certificate combines the study of Asian languages, culture, politics, and history, and is particularly well-suited to majors from business, global studies, international studies, journalism and advertising, the visual and performing arts, communication, economics, the natural sciences, political science, or any discipline that involves interactions with the Asian world.

Students who obtain this certificate are better equipped to work in global industry and business, international politics, technology, tourism, and media because they’re able to better analyze Asian societies and act with cultural awareness and understanding. Students can choose to obtain the certificate with or without an Asian language focus, with the latter requiring more language classes. The certificate is interdisciplinary with coursework from economics, history, comparative literature, anthropology, political science, sociology, and art history.

Eligibility
The Undergraduate Certificate in Asian Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject area.

Requirements
Students enrolling in the Asian Studies Certificate Program are required to earn a minimum of 18 credits, at least 9 of which must be completed at UWM. Of the 18 credits, at least 12 credits must be taken in courses in the College of Letters and Science, and 9 of those must be at the upper level (numbered 300 and above). Of the required credits, at least 9 must be at the 300 level or above, of which 6 credits must be non-language courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.700 or above in all courses counting toward the certificate. A maximum of 6 credits in a combination of approved independent study and/or relevant Asia-focused courses from other schools and colleges may count toward the requirements of the program. All students are required to complete an exit survey before the certificate is awarded.

To earn the Certificate in Asian Studies, students must fulfill the requirements for one of two tracks:

- Track A (22 credits): 6 courses, including 2 courses in a single Asian language (10 crs.), 1 gateway course (3 crs.), and 3 upper-level electives (9 crs.); or
- Track B (18-22 credits): 6 courses, including 1 gateway course (3 crs.) with the remaining courses chosen from the list of electives. Students must take a minimum of 3 upper-level courses (9 crs.), and no language courses are required. However, as electives, students may choose to take a course in any single Asian language or 2 courses (up to 10 crs.) in any combination of Chinese, Japanese, or Korean.

Students majoring or minoring in Chinese or Japanese may only earn the Asian Studies Certificate through Track B. Interested students should contact the Asian Studies Program Advisor as soon as they decide to pursue the certificate. The advisor’s role is to help the student design a program of study from the among the available courses and to guide the student in completing that program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>ARTHIST 105</td>
<td>Asian Art and Architecture (HU)</td>
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<tr>
<td>ECON 193</td>
<td>First-Year Seminar: (Economics of Asia (SS) or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia (SS)</td>
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<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600 (HU)</td>
<td>3</td>
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<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600 (HU)</td>
<td>3</td>
</tr>
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<td>HIST 284</td>
<td>Buddhism Across Asia</td>
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<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
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Electives
Select 15 credits from the approved list below

Total Credits 18

Electives
The following courses have been approved for the Certificate in Asian Studies:

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<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
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<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
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<td>ARTHIST 105</td>
<td>Asian Art and Architecture</td>
<td>3</td>
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<tr>
<td>ARTHIST 192</td>
<td>First-Year Seminar: ((image and Meaning in Chinese Art or other appropriate subtitles)</td>
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<tr>
<td>ARTHIST 281</td>
<td>Modern and Contemporary Chinese Art</td>
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<tr>
<td>ARTHIST 308</td>
<td>Film Styles: (Asian Cinema and Spiritual Practices, Meaning in Chinese Art, or other appropriate subtitles)</td>
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<tr>
<td>Course Code</td>
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<td>ARTHIST 381</td>
<td>Honors Seminar: (Images of Japan's Floating World or other appropriate subtitles)</td>
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<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
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<tr>
<td>ARTHIST 383</td>
<td>Japanese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 386</td>
<td>Art, Ritual, and Ethnicity of China</td>
<td>3</td>
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<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td>3</td>
</tr>
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<td>ARTHIST 383</td>
<td>Japanese Art and Architecture</td>
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<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
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<td>ARTHIST 481</td>
<td>Topics in Chinese Art:</td>
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<tr>
<td>ARTHIST 482</td>
<td>Topics in Non-Western Art: (with appropriate subtitle)</td>
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<tr>
<td>CHINESE 101</td>
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<td>CHINESE 102</td>
<td>Second Semester Chinese</td>
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<td>CHINESE 150</td>
<td>Contemporary Chinese Society and Culture</td>
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<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
<td>3</td>
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<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
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<td>CHINESE 201</td>
<td>Third Semester Chinese</td>
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<td>CHINESE 202</td>
<td>Fourth Semester Chinese</td>
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<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
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<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
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</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
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<tr>
<td>CHINESE 330</td>
<td>Chinese Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 343</td>
<td>Chinese Martial Arts Fiction</td>
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<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
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<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
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<td>CHINESE 441</td>
<td>Business Chinese</td>
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<td>COMPLIT 230</td>
<td>Literature and Society: (Land Society Chinese Literature Before the 20th Century or other appropriate subtitles)</td>
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<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
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<td>COMPLIT 362</td>
<td>Transnational Asian Cinemas:</td>
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<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context:</td>
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<td>ECON 193</td>
<td>First-Year Seminar: Economics of Asia or other appropriate subtitles (if not selected above)</td>
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<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
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<td>ECON 353</td>
<td>Economic Development (with appropriate emphasis on Asia)</td>
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<td>ENGLISH 316</td>
<td>World Cinema: (Hong Kong Cinema or other appropriate subtitles)</td>
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<tr>
<td>ENGLISH 507</td>
<td>Studies in Literature, 1900 to the Present: (Representations of Self in Japanese and Western Literature or other appropriate subtitles)</td>
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<td>Geography of Asia (if not selected above)</td>
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<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography (with appropriate emphasis on Asia)</td>
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<td>GEOG 470</td>
<td>Geography of South Asia</td>
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<td>HIST 175</td>
<td>East Asian Civilization to 1600 (if not selected above)</td>
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<td>HIST 176</td>
<td>East Asian Civilization Since 1600 (if not selected above)</td>
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<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
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<td>HIST 284</td>
<td>Buddhism Across Asia</td>
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<tr>
<td>HIST 286</td>
<td>The Korean War</td>
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<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
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<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (Introduction to Buddhist Thought or other appropriate subtitles)</td>
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<tr>
<td>HIST 372</td>
<td>Topics in Global History: (Global History of the Korean War or other appropriate subtitles)</td>
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<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
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<td>HIST 377</td>
<td>Modern China</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
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<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
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<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
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<td>HMONG 107</td>
<td>First-Semester Hmong Literacy</td>
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<tr>
<td>HIST 402</td>
<td>Topics in Asian History</td>
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<tr>
<td>HMONG 108</td>
<td>Second-Semester Hmong Literacy</td>
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<tr>
<td>HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
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<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (with appropriate subtitle)</td>
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<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
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<td>JAPAN 101</td>
<td>First Semester Japanese</td>
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</tr>
<tr>
<td>JAPAN 102</td>
<td>Second Semester Japanese</td>
<td>5</td>
</tr>
<tr>
<td>JAPAN 110</td>
<td>Japanese Popular Culture</td>
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<tr>
<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
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<tr>
<td>JAPAN 201</td>
<td>Third-Semester Japanese</td>
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<td>JAPAN 202</td>
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<td>JAPAN 220</td>
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<td>Japanese Language and Culture</td>
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<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
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<td>JAPAN 351</td>
<td>Japanese Performance Traditions</td>
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<td>JAPAN 361</td>
<td>Translating-Japanese Media</td>
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<td>JAPAN 401</td>
<td>Seventh Semester Japanese</td>
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<td>JAPAN 402</td>
<td>Eighth Semester Japanese</td>
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<td>JAPAN 416</td>
<td>Introduction to Translation: Japanese to English</td>
<td>3</td>
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<td>JAPAN 441</td>
<td>Business Japanese I</td>
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<tr>
<td>KOREAN 101</td>
<td>First-Semester Korean</td>
<td>5</td>
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</table>
Faculty microscopy. They also study interactions between organisms and the cellular and molecular levels using genetics, biochemistry, and biology. Biology is the study of life. Biologists analyze organism functions at biological sciences. Biological Sciences is a popular choice for students preparing for careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

Exit Survey
All students are required to complete an exit survey upon completion of their required coursework. The survey allows certificate students to reflect on their experiences while providing important information to help improve the program. The exit survey is conducted online for a limited period of time during the fall and spring semesters.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Contact Information
Current Students contact Hilary Snow, PhD, snowh@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-4658 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs/?discipline=Asian+Studies

Biological Sciences
Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within biological sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in biological sciences have applications across many areas including agriculture, medicine, and the environment. Biological sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in biological sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

Field Stations
Pigeon Lake Field Station is a natural laboratory sponsored by the 14 campuses of the University of Wisconsin System, located in the Chequamegon National Forest, 30 miles from Lake Superior in northern Wisconsin’s Bayfield County. Pigeon Lake Field Station offers summer programs in a variety of disciplines, including biology. Work completed at Pigeon Lake is credited as resident study by UWM. For additional information, contact the Biological Sciences Department office.

The UWM Field Station is an area of almost 2,500 acres devoted to the study of natural history and biology. Located about 25 miles north of campus on the Cedarburg Bog in the Town of Saukville, the station includes a wide variety of natural areas ranging from old-growth forest to acid bog and several lakes. Many biological sciences courses use the Field Station for instruction and to provide hands-on research opportunities. The Field Station provides internship and independent study opportunities for biology students; it also offers short courses for credit through the department. For additional information, contact the Biological Sciences Department office.

Programs
- Biological Sciences, BA (p. 755)
- Biological Sciences, BS (p. 760)
- Biological Sciences, Minor (p. 766)
- Biological Sciences, MS (p. 766)
- Biological Sciences, PhD (p. 768)
- Microbiology, BS (p. 769)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
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<tbody>
<tr>
<td>Filipe Alberto</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Algarve, Portugal</td>
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</tr>
<tr>
<td>Sonia Bardy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Queen's University, Ontario</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>John Berges</td>
<td>Professor</td>
<td>PhD</td>
<td>University of British Columbia</td>
<td>✗</td>
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<tr>
<td>Gerald Bergstrom</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Martin Boraas</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Arthur S. Brooks</td>
<td>Professor</td>
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<tr>
<td>John Buntin</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>James R. Coggins</td>
<td>Associate Professor</td>
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<tr>
<td>Mary Lynne Perille</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
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<tr>
<td>Collins</td>
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<tr>
<td>Claire de la Cova</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Columbia University</td>
<td>✗</td>
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<th>Title</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Madhusudan Dey</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Jawaharlal Nehru University, India</td>
</tr>
<tr>
<td>Peter Dunn</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Alberta</td>
</tr>
<tr>
<td>Timothy Ehlinger</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
</tr>
<tr>
<td>Millicent S. Ficken</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Steven Forst</td>
<td>Professor</td>
<td>PhD</td>
<td>New York University</td>
</tr>
<tr>
<td>Ralph Grunewald</td>
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<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Jennifer Gutzman</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>R. David Heathcote</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
</tr>
<tr>
<td>Gerlinde Hoebel</td>
<td>Associate Professor</td>
<td>DNS, PhD</td>
<td>University of Ulm, Germany</td>
</tr>
<tr>
<td>Sara B. Hoot</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Reinhold Hutz</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
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<tr>
<td>Jeffrey Karron</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Colorado</td>
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<tr>
<td>Geoffrey S. Kennedy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Sergei Kuchin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Institute of Genetics, Moscow</td>
</tr>
<tr>
<td>Emily Latch</td>
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<td>PhD</td>
<td>Purdue University</td>
</tr>
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<td>Jakob R. Loewenberg</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Mark McBride</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>Gretchen A. Meyer</td>
<td>Adjunct Senior Scientist</td>
<td>PhD</td>
<td>Cornell University</td>
</tr>
<tr>
<td>James R. Moyer Jr.</td>
<td>Associate Professor, Psychology</td>
<td>PhD</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>Julie A. Oliver</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>Marianna Orlova</td>
<td>Instrument Innovator</td>
<td>PhD</td>
<td>Institute of Genetics and Selection of Industrial Microorganisms, Moscow</td>
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<tr>
<td>Heather A. Owen</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>Miami University</td>
</tr>
<tr>
<td>Andrew Petto</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Massachusetts, Amherst</td>
</tr>
<tr>
<td>Ruth B. Phillips</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Gyaneshwar Prasad</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Maharaja Sayajirao University of Baroda, India</td>
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<tr>
<td>Christopher C. Quinn</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Yale University</td>
</tr>
<tr>
<td>Valerica Raicu</td>
<td>Professor, Physics</td>
<td>PhD</td>
<td>University of Bucharest, Romania</td>
</tr>
<tr>
<td>James A. Reinartz</td>
<td>Adjunct Senior Scientist</td>
<td>PhD</td>
<td>Duke University</td>
</tr>
<tr>
<td>Charles C. Remsen</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Rafael Rodriguez</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
</tr>
<tr>
<td>Daad A. Saffarini</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
</tr>
<tr>
<td>Colin Scanes</td>
<td>Professor</td>
<td>PhD, DSc</td>
<td></td>
</tr>
<tr>
<td>Marius Schmidt</td>
<td>Professor</td>
<td>PhD</td>
<td>Technical University of Munich</td>
</tr>
<tr>
<td>Dianne Seale</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Cynthia V. Sommer</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Douglas Steeber</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>J. Rudi Strickler</td>
<td>Shaw Distinguished Professor</td>
<td>PhD</td>
<td>Swiss Federal Institute of Technology</td>
</tr>
<tr>
<td>Ava Udvadia</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Duke University</td>
</tr>
<tr>
<td>Donna Van Wynsbergh</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Eldon D. Warner</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Roslyn P. Warren</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
</tr>
<tr>
<td>Peter J. Wejksnora</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Brandeis University</td>
</tr>
<tr>
<td>Linda A. Whittingham</td>
<td>Professor</td>
<td>PhD</td>
<td>Queens University, Ontario</td>
</tr>
<tr>
<td>Charles F. Wimpee</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
</tr>
<tr>
<td>Jane Witten</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Ching-Hong Yang</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Riverside</td>
</tr>
</tbody>
</table>
Biological Sciences, BA

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology. Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

Related Areas of Study

The Conservation and Environmental Science (p. 818) major is an alternative, interdisciplinary program for students with specific interests in conservation or environmental science.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MATH 102 Mathematical Literacy for College Students II
MATH 103 Contemporary Applications of Mathematics
MATH 105 Introduction to College Algebra
MATH 108 Algebraic Literacy II
MATH 111 Introduction to Logic - Critical Reasoning
or PHILOS 111 Introduction to Logic - Critical Reasoning
MATH 116 College Algebra
Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing
II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOl 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
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<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
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</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
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<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
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<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation.**

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Biological Sciences Major Requirements

The Biological Sciences major requires the following:

- A minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.
- At least 15 of the advanced credits must be taken in residence at UWM.
- Completion of four (4) laboratory courses
- A GPA of 2.0 in Biological Sciences courses attempted at UWM.
- A GPA of at least 2.0 in all major credits attempted, including any transfer work.

No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine BIO SCI 150, BIO SCI 202, and BIO SCI 203 for more than 9 credits toward the major. A combined limit of 6 credits in BIO SCI 290, BIO SCI 489, BIO SCI 695, BIO SCI 697, BIO SCI 698, BIO SCI 699, HONORS 686, HONORS 687, and HONORS 689 counts toward the major.

Additional requirements for the major include the following:

**Code** | **Title** | **Credits**
--- | --- | ---
MATH 105 | Introduction to College Algebra (or equivalent) | 3

**Physics Foundation**

Select one of the following options: 9-10

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment)</td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
</tr>
</tbody>
</table>

Option 3:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
</tr>
</tbody>
</table>

**Chemistry Foundation**

Part A:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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</table>

Part B:

Select one of the following options: 5-8

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
</tr>
</tbody>
</table>

Option 2: ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
</tbody>
</table>

¹ For students in the Cell and Molecular Biology (CMB) option, CHEM 343, CHEM 344, and CHEM 345 are required, and a second physics lab is strongly recommended.

Students who plan to attend graduate or professional schools are advised to take the one-year sequence of Organic Chemistry with lab, a course in Biochemistry (CHEM 501; also counts toward major), and two semesters of Calculus.
### Flexible Biological Sciences Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Biological Sciences Courses</strong></td>
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</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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<tr>
<td>Select at least one of the following:</td>
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<td>4-5</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
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</tr>
<tr>
<td>BIO SCI 315 &amp; BIO SCI 316</td>
<td>Cell Biology and Laboratory in Genetics and Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td><strong>Research Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 670</td>
<td>Senior Seminar in Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 671</td>
<td>Undergraduate Seminar in Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 672</td>
<td>Undergraduate Seminar in Cell and Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>HONORS 686</td>
<td>Research in Honors</td>
<td></td>
</tr>
<tr>
<td>HONORS 687</td>
<td>Senior Honors Project</td>
<td></td>
</tr>
<tr>
<td>HONORS 689</td>
<td>Senior Honors Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 695</td>
<td>Independent Study in Freshwater Sciences for Biological Sciences Students</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 697</td>
<td>Independent Study in Cell and Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 698</td>
<td>Independent Study in Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 699</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td><strong>Laboratory Course Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A total of 4 labs courses are required for the major. This requirement may be satisfied by the courses listed above; if not, select additional lab courses from the list below.</td>
<td>1-4</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 358</td>
<td>Birds of Wisconsin</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 372</td>
<td>Animal Physiology and Neurobiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 451</td>
<td>Field Methods in Conservation</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 501</td>
<td>Plant and Aquatic Ecophysiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
</tbody>
</table>

### Cell and Molecular Biology Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td><strong>Laboratory Course Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select at least one of the following:</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 372</td>
<td>Animal Physiology and Neurobiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 501</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
<tr>
<td><strong>Research Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select additional Cell and Molecular Biology courses to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 672</td>
<td>Undergraduate Seminar in Cell and Molecular Biology</td>
<td>1-3</td>
</tr>
<tr>
<td>or BIO SCI 697</td>
<td>Independent Study in Cell and Molecular Biology</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 335</td>
<td>Mammalian Reproductive Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 356</td>
<td>Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 370</td>
<td>Mammalian Physiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 455</td>
<td>Cellular, Molecular and Developmental Neurobiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td></td>
</tr>
</tbody>
</table>
### Ecology, Evolution and Behavior Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Laboratory Course Requirement

Select at least one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 358</td>
<td>Birds of Wisconsin</td>
<td>2-4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 451</td>
<td>Field Methods in Conservation</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 501</td>
<td>Plant and Aquatic Ecophysiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 502</td>
<td>Introduction to Programming and Modeling in Ecology and Evolution</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
</tbody>
</table>

#### Research Requirement

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 670</td>
<td>Senior Seminar in Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 695</td>
<td>Independent Study in Freshwater Sciences for Biological Sciences Students</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 699</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td></td>
</tr>
<tr>
<td>HONORS 686</td>
<td>Research in Honors</td>
<td></td>
</tr>
<tr>
<td>HONORS 687</td>
<td>Senior Honors Project</td>
<td></td>
</tr>
<tr>
<td>HONORS 689</td>
<td>Senior Honors Thesis</td>
<td>12</td>
</tr>
</tbody>
</table>

**Additional Electives**

Select electives to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 406</td>
<td>Marine Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 440</td>
<td>Ecology and Evolution of Amphibians and Reptiles</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 458</td>
<td>Community Ecology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 469</td>
<td>Genomic Data Analysis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 480</td>
<td>Ecological Genetics</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 505</td>
<td>Conservation Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 512</td>
<td>Limnology I</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 532</td>
<td>Behavioral Ecology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 562</td>
<td>Topics in Field Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 575</td>
<td>Evolutionary Biology</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

34-41

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1. All courses taught as independent studies intended to fulfill the research requirement must have prior departmental approval.

---

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall.

Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to
ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Department Advising

Students should contact an advisor (uw.edu/biology/undergraduate/advising/) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor (uw.edu/biology/undergraduate/advising/) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

Major or Minor Declaration:

Biological Sciences students should be enrolled in Bio Sci 150 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors (uw.edu/biology/undergraduate/declare-majors/)

Failure to complete a declaration of major may result in a delay in graduation.

Honors in the Major

Students in Biological Sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study
   (BIO SCI 695, BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship
   (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in Biological Sciences should apply to the Department of Biological Sciences during their last semester of study.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Department directly, biosci@uw.edu Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uw.edu

http://uw.edu/biology/undergraduate/majors/

Biological Sciences, BS

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uw.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.
### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

### College of Letters & Science Requirements

#### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved
courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 and above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Biological Sciences Major Requirements
The Biological Sciences major requires the following:

- A minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.
- At least 15 of the advanced credits must be taken in residence at UWM.
- Completion of four (4) laboratory courses
- A GPA of 2.0 in Biological Sciences courses attempted at UWM.
- A GPA of at least 2.0 in all major credits attempted, including any transfer work.

No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine BIO SCI 150, BIO SCI 202, and BIO SCI 203 for more than 9 credits toward the major. A combined limit of 6 credits in BIO SCI 290, BIO SCI 489, BIO SCI 695, BIO SCI 697, BIO SCI 698, BIO SCI 699, HONORS 689, and HONORS 689 counts toward the major.

. Additional requirements for the major include the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>4-5</td>
</tr>
<tr>
<td></td>
<td>Math Foundation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 211 Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
</tbody>
</table>
MATH 213 Calculus with Life Sciences Applications
MATH 221 Honors Calculus I
MATH 231 Calculus and Analytic Geometry I

Physics Foundation
Select one of the following options:

Option 1:
PHYSICS 120 General Physics I (Non-Calculus Treatment)
PHYSICS 122 General Physics II (Non-Calculus Treatment)
PHYSICS 121 General Physics Laboratory I (Non-Calculus Treatment) (at least one semester)

Option 2:
PHYSICS 209 Physics I (Calculus Treatment)
PHYSICS 210 Physics II (Calculus Treatment)
PHYSICS 214 Lab Physics I (Calculus Treatment) (at least one semester)

Option 3:
PHYSICS 219 Physics I: Calculus-Based, Studio Format
PHYSICS 220 Physics II: Calculus-Based, Studio Format

Chemistry Foundation
Part A:
CHEM 102 General Chemistry 5
CHEM 104 General Chemistry and Qualitative Analysis 5

Part B:
Select one of the following options:

Option 1:
CHEM 341 Introductory Survey of Organic Chemistry
CHEM 342 Introductory Organic Chemistry Laboratory

Option 2:
CHEM 343 Organic Chemistry
CHEM 344 Organic Chemistry Laboratory
CHEM 345 Organic Chemistry

1 For students in the Cell and Molecular Biology (CMB) option, CHEM 343, CHEM 344, and CHEM 345 are required, and a second physics lab is strongly recommended.

Students who plan to attend graduate or professional schools are advised to take the one-year sequence of Organic Chemistry with lab, a course in Biochemistry (CHEM 501; also counts toward major), and two semesters of Calculus.

Flexible Biological Sciences Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select at least one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>BIO SCI 316 &amp; BIO SCI 316</td>
<td>and Laboratory in Genetics and Cell Biology</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
</tr>
</tbody>
</table>

Research Requirement
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography</td>
</tr>
<tr>
<td>BIO SCI 670</td>
<td>Senior Seminar in Biological Sciences</td>
</tr>
<tr>
<td>BIO SCI 671</td>
<td>Undergraduate Seminar in Microbiology</td>
</tr>
<tr>
<td>BIO SCI 672</td>
<td>Undergraduate Seminar in Cell and Molecular Biology</td>
</tr>
<tr>
<td>HONORS 686</td>
<td>Research in Honors</td>
</tr>
<tr>
<td>HONORS 687</td>
<td>Senior Honors Project</td>
</tr>
<tr>
<td>HONORS 689</td>
<td>Senior Honors Thesis</td>
</tr>
<tr>
<td>BIO SCI 695</td>
<td>Independent Study in Freshwater Sciences for Biological Sciences Students</td>
</tr>
<tr>
<td>BIO SCI 697</td>
<td>Independent Study in Cell and Molecular Biology</td>
</tr>
<tr>
<td>BIO SCI 698</td>
<td>Independent Study in Microbiology</td>
</tr>
<tr>
<td>BIO SCI 699</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Capstone option for Biological Sciences/CES double majors only:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
</tr>
</tbody>
</table>

Laboratory Course Requirement
A total of 4 labs courses are required for the major. This requirement may be satisfied by the courses listed above; if not, select additional lab courses from the list below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology (if not selected above)</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology (if not selected above)</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology (if not selected above)</td>
</tr>
<tr>
<td>BIO SCI 358</td>
<td>Birds of Wisconsin</td>
</tr>
<tr>
<td>BIO SCI 372</td>
<td>Animal Physiology and Neurobiology Laboratory</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
</tr>
<tr>
<td>BIO SCI 451</td>
<td>Field Methods in Conservation</td>
</tr>
<tr>
<td>BIO SCI 501</td>
<td>Plant and Aquatic Ecophysiology Laboratory</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
</tr>
<tr>
<td>BIO SCI 543</td>
<td>Scanning Electron Microscopy Laboratory</td>
</tr>
<tr>
<td>BIO SCI 544</td>
<td>Transmission Electron Microscopy Laboratory</td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
</tr>
</tbody>
</table>

Electives
Select electives to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.

| Total Credits | 34-43 |

All courses taught as independent studies intended to fulfill the research requirement must have prior departmental approval.

### Cell and Molecular Biology Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Laboratory Course Requirement

Select at least one of the following:

- BIO SCI 203: Anatomy and Physiology II
- BIO SCI 372: Animal Physiology and Neurobiology Laboratory
- BIO SCI 383: General Microbiology
- BIO SCI 402: Immunological Techniques
- BIO SCI 501: Plant and Aquatic Ecophysiology Laboratory
- BIO SCI 539: Laboratory Techniques in Molecular Biology
- BIO SCI 543: Scanning Electron Microscopy Laboratory
- BIO SCI 544: Transmission Electron Microscopy Laboratory
- BIO SCI 580: Experimental Microbiology

#### Research Requirement

- BIO SCI 672: Undergraduate Seminar in Cell and Molecular Biology (1-3 credits)
- or BIO SCI 697: Independent Study in Cell and Molecular Biology

#### Electives

Select additional Cell and Molecular Biology courses to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.

- BIO SCI 335: Mammalian Reproductive Biology
- BIO SCI 356: Developmental Biology
- BIO SCI 370: Mammalian Physiology
- BIO SCI 401: Immunology
- BIO SCI 405: General Virology
- BIO SCI 455: Cellular, Molecular and Developmental Neurobiology
- BIO SCI 490: Molecular Genetics
- BIO SCI 498: Genetics of Development and Cancer
- BIO SCI 500: Plant Physiology
- BIO SCI 529: Molecular Biology of Microorganisms
- BIO SCI 535: Bacterial Pathogenesis
- BIO SCI 540: Microbial Diversity and Physiology
- BIO SCI 542: Biological Electron Microscopy

### Ecology, Evolution, and Behavior Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Laboratory Course Requirement

Select at least one of the following:

- BIO SCI 358: Birds of Wisconsin
- BIO SCI 383: General Microbiology
- BIO SCI 407: Plant Systematics and Evolution
- BIO SCI 451: Field Methods in Conservation
- BIO SCI 501: Plant and Aquatic Ecophysiology Laboratory
- BIO SCI 502: Introduction to Programming and Modeling in Ecology and Evolution
- BIO SCI 539: Laboratory Techniques in Molecular Biology

#### Research Requirement

Select one of the following:

- BIO SCI 611: Seminar on Recent Advances in Limnology and Oceanography
- BIO SCI 670: Senior Seminar in Biological Sciences
- BIO SCI 695: Independent Study in Freshwater Sciences for Biological Sciences Students
- BIO SCI 699: Independent Study
- CES 471: Practicum in Natural Resources Management
- HONORS 686: Research in Honors
- HONORS 687: Senior Honors Project
- HONORS 689: Senior Honors Thesis

#### Additional Electives

Select electives to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.

- BIO SCI 406: Marine Biology
Failure to complete a declaration of major may result in a delay in graduation.

Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact the Department directly, biosci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/biology/undergraduate/majors/

**Biological Sciences, Minor**

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in medicine, veterinary school, pharmacy school, dental school, etc. A minor in Biological Sciences also prepares students for professional careers in medicine, veterinary medicine, food management, bioremediation, as well as the biomedical and healthcare, agriculture, natural resources and environmental science.

**Requirements**

At least 9 credits must be taken at or above the 300 level in residence at UWM. In addition, students must attain a GPA of 2.0 in minor courses attempted at UWM. Students must maintain a GPA of 2.0 in minor courses attempted at UWM. At least 9 credits must be taken at or above the 300 level in residence at UWM. Students must maintain a GPA of 2.0 in minor courses attempted at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150 &amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td>8</td>
</tr>
</tbody>
</table>

**Gateway**

Select at least one of the following: 4-6

- BIO SCI 310 General Ecology
- BIO SCI 315 Cell Biology and Laboratory in Genetics and Cell Biology
- BIO SCI 325 Genetics and Laboratory in Genetics and Cell Biology
- BIO SCI 383 General Microbiology

**Additional Requirements**

Select at least 7 additional credits in courses that carry credit toward the major 7

**Total Credits** 19-21

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**Contact Information**

http://uwm.edu/biology/undergraduate/majors/

**Biological Sciences, MS**

The Department of Biological Sciences offers graduate programs in biology with areas of concentration in botany, microbiology, cellular and molecular biology, genetics; physiology and morphology of plants and animals; terrestrial and aquatic ecology; behavioral biology; conservation biology; and evolution.

Both a thesis and non-thesis track are offered within the MS degree. The thesis track is a research-based degree and is intended for students pursuing careers in formal research or planning to continue study towards the PhD degree. The non-thesis track is a coursework-intensive MS degree designed for students desiring a graduate education to enhance employment opportunities or prior to obtaining a professional degree. Students may switch from the non-thesis track to the thesis track if all requirements are met and with written approval of the student’s advisor and the Graduate Program Director.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Fall Semester**

- 12/01 - MS Thesis Track
- 05/01 - MS Non-Thesis Track

**Spring Semester**

- 10/01 - MS Non-Thesis Track

**Thesis Track**

Students are required to maintain full-time status and develop a formal thesis to earn the degree. Admission is during the fall semester only. When applying for admission, applicants should describe in their personal statement as completely as possible their specific research interests within biological sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Biological Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student’s major professor. To assist the applicant in this process, a Biological Sciences Graduate Program brochure is available, which describes the research activities of the faculty. The brochure can be obtained by contacting the departmental office.

**Non-Thesis Track**

Students may enroll part-time and complete the degree at a slower pace or enroll full time to earn the degree faster. Students may be admitted during the fall or spring semesters. The accelerated degree is especially well suited for those students seeking to improve their academic record prior to applying to professional schools such as medical school, veterinary school, pharmacy school, dental school, etc. The course requirements for the program are highly adaptable to meet the student's needs and interests.
the student's goals such as completion of admission requirements, exploring a secondary area of interest, or gaining hands-on laboratory research experience. When applying for admission, applicants should describe their career goals in their personal statement as completely as possible to ensure assignment of the appropriate advisor.

**Additional Admission Requirements**

An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) plus these departmental requirements to be considered for admission to the Biological Sciences Master's program. Track-specific requirements are also noted:

1. Undergraduate coursework equivalent to the Biological Sciences major at UWM, including coursework in the following areas of plant or animal science: cellular and molecular biology or genetics; organismal biology; ecology. Additional coursework in chemistry through organic or biochemistry; mathematical preparation including at least one course in calculus, statistics, or biometry; and a year of physics are strongly encouraged.

2. Submission of official scores:
   a. **Thesis Track**: Optional submission of official scores from the General Test of the Graduate Record Examination (GRE) ([http://uwm.edu/graduateschool/admission/#gre](http://uwm.edu/graduateschool/admission/#gre)).
   b. **Non-Thesis Track**: Optional submission of official scores from the General Test of the Graduate Record Examination (GRE) ([http://uwm.edu/graduateschool/admission/#gre](http://uwm.edu/graduateschool/admission/#gre)), Medical College Admission Test (MCAT), Dental Admission Test (DAT), Pharmacy College Admission Test (PCAT), or Praxis test. Submitted test scores may be used as additional evidence of academic ability.

3. At least two letters of recommendation from persons familiar with the applicant's scholarship.

4. International students must meet the minimum department requirements for English proficiency.
   a. **Thesis Track**:
      i. Completion of a baccalaureate or higher degree within the last two years from an institution where English is the sole language of instruction with a minimum of two years attendance; or
      ii. A minimum required TOEFL score of 79 overall with a minimum required score of 23 on the Speaking portion; or
      iii. A minimum required IELTS score of 6.5 overall with a minimum required score of 7.0 on the Speaking portion; or
      iv. A minimum required CAE score of C1 overall with a minimum required score of 185 on the Speaking portion.
   b. **Non-Thesis Track**:
      i. Completion of a baccalaureate or higher degree within the last two years from an institution where English is the sole language of instruction with a minimum of two years attendance; or
      ii. A minimum required TOEFL score of 79 overall with a minimum recommended sub-score of 18 in each skill; or
      iii. A minimum required IELTS score of 6.5 overall with a minimum recommended sub-score of 6.0 on each skill; or
      iv. A minimum required CAE score of C1 overall with a minimum recommended sub-score of 170 on any given language skill test.

---

**Credits and Courses**

**Thesis Track**

Minimum degree requirement is 30 graduate credits, at least 24 of which must be in biological sciences and up to 6 of which may be in related courses. Of the 30 graduate credits, 15 must be taken at the graduate-only course level. Of the 24 biological sciences credits, at least 12 must be course or seminar credits. The student must take at least two seminars during the course of the student’s program up to a maximum of 4 credits counting toward the degree; and enroll in Biology Colloquium (BIO SCI 900) each semester with a maximum of 4 colloquium credits counting toward the degree. The student must enroll in a minimum of 12 credits in research (BIO SCI 990). The student plans a program of studies in consultation with the major professor. If desired, a special area of concentration (botany, microbiology, physiology) may be declared. A cumulative GPA of a 3.0 or higher on a 4.0 scale is required to receive the MS degree.

**Non-Thesis Track**

Minimum degree requirement is 30 graduate credits, at least 20 of which must be in courses offered by the Department of Biological Sciences. Of the 30 graduate credits, 15 must be taken at the graduate-only course level.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 925</td>
<td>Graduate Seminar in Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 929</td>
<td>Special Topics in Ecology, Evolution and Behavior</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 931</td>
<td>Seminar in Systematic Ecology, Evolution and Behavior</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 933</td>
<td>Seminar in Neuroscience</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 934</td>
<td>Research Advances in Cell and Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 935</td>
<td>Research Advances in Ecology, Evolution and Behavior</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 936</td>
<td>Research Advances in Microbiology</td>
<td></td>
</tr>
</tbody>
</table>

Select up to 4 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 899</td>
<td>Advanced Independent Studies</td>
<td></td>
</tr>
</tbody>
</table>

Select up to 2 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 900</td>
<td>Biology Colloquium</td>
<td></td>
</tr>
</tbody>
</table>

Required capstone course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 800</td>
<td>Graduate Capstone in Biological Sciences</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Requirements**

Select additional graduate credits to fulfill the required total of 30 credits

---

1 Any remaining course work may be completed in other departments within UWM with the approval of the student’s advisor and the Graduate Program Director.

A cumulative GPA of a 3.0 or higher on a 4.0 scale is required to receive the MS degree.
Capstone Requirements
All students in the non-thesis MS track must enroll once in BIO SCI 800. For successful completion of the capstone, students must demonstrate the ability to read and understand current scientific literature in the biological sciences, and apply acquired knowledge in biological sciences to a topic presentation.

In addition to BIO SCI 800, all students must submit a minimum of two examples of scientific writing that have been completed and graded during their graduate studies. At least one of these must be from a laboratory course or experience. These documents must be submitted to the Graduate Program Director and will be used as a portfolio to demonstrate the students’ analytic and scientific writing abilities.

Additional Requirements

Thesis Track

MS Graduate Advisory Committee
The MS Graduate Advisory Committee is selected by the major professor in consultation with the student, by the end of the first year of enrollment. The MS Advisory Committee consists of the major professor and two other graduate faculty members. The Committee must meet at least once a year to monitor and formally report on the student’s academic and research progress.

Oral Examination
The student must pass an MS oral examination. The examination should be taken by the end of the first year of enrollment and must be taken no later than the end of the second year of enrollment. The student’s MS Advisory Committee administers the oral examination.

Thesis
Students must prepare and defend a formal thesis reporting the results of their research. During the final year of study, students must present a seminar on their research, with prior public announcement. Submission of the final thesis to the Graduate School is required to complete the MS degree.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Graduate Committee assigns a faculty advisor as a necessary prerequisite to admission.

Time Limit
Student must complete all degree requirements within five years of initial enrollment.

Non Thesis Track

MS Graduate Advisor
Upon admission to the program, the student will be assigned an advisor whose research background is similar to the student’s stated area of interest and career goals. Students may request a specific advisor from the faculty list; however, requesting an advisor does not guarantee availability. During the first semester of study the student and advisor must complete and submit a Plan of Study to the Graduate Program Director. The Plan of Study will detail the coursework to be taken for completion of the degree and can be modified at any time during the program.

Time Limit
Student must complete all degree requirements within three years of initial enrollment.

Biological Sciences, PhD

The Department of Biological Sciences offers graduate programs in biology with areas of concentration in botany, microbiology; cellular and molecular biology; genetics; physiology and morphology of plants and animals; terrestrial and aquatic ecology; behavioral biology; conservation biology; and evolution.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

- Applicant must present at least 30 credits in one or more areas of biological sciences and must show substantial evidence of scholarly potential. A master’s degree is not prerequisite for admission to the PhD program.
- Other academic preparation: a year of general physics including at least one semester of laboratory; one year of general college chemistry with laboratory, plus at least one semester of organic chemistry with laboratory or biochemistry with laboratory; two courses in college mathematics chosen from among courses in calculus, biometry or statistics.
- Optional submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
- Acceptance by a faculty member in the program who will act as major professor (sponsor): see Major Professor as Advisor.
- Three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

Applicants may be admitted with specific course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements with a grade of C or better within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. The student is expected to maintain a grade of B in all other coursework.

Reapplication
A student in the MS program, or who receives the master’s degree at UWM, must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select at least 27 credits in formal coursework and seminars</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Select 4 colloquium credits</td>
<td>4</td>
</tr>
</tbody>
</table>
At least 30 of the 54 credits must be in biological sciences; 12 credits may be earned in allied sciences, including those in the secondary area of concentration or minor field(s).

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The graduate committee assigns the incoming biological sciences student to an advisor whose experience and research most closely approximates the student's own career interests. Before the student's preliminary examination either this initially assigned advisor or another qualified staff member is designated as the student's major professor.

**Secondary Area of Concentration**
The student must select a secondary area of concentration either within biological sciences or in an allied science, and must present at least 9 credits of coursework in that area to the departmental Graduate Committee. A university minor (option A or B) may qualify as a secondary area of concentration upon approval by the departmental Graduate Committee.

**Language or Data Analysis Proficiency**
The student must demonstrate proficiency either in a foreign language or data analysis. The student can demonstrate language proficiency in one language other than English (German, French, Russian or Spanish preferred), either through examinations or through 12 credits of specified coursework, either before or after admission to the program. The student can demonstrate proficiency in data analysis by presenting 12 credits in one or more of the following: mathematics (200-level or above), statistics, computer science.

**Residence**
The student must meet Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

**PhD Advisory Committee**
The PhD Advisory Committee shall be selected by the major professor in consultation with the student by the end of the first year of enrollment. The PhD Advisory Committee shall consist of the major professor and four other graduate faculty members. One of the faculty should reflect competency in the secondary area of concentration. When the advisory committee is formed, the student must prepare a departmental “certification document” for the approval of the committee. The committee must meet at least once a year to monitor and formally report on the student’s academic and research progress.

**Dissertation Proposal and Doctoral Preliminary Examination**
Prior to the doctoral preliminary examination, the student submits a preliminary written dissertation proposal to the student's PhD Advisory Committee and delivers an oral presentation of relevant research in progress. The doctoral preliminary examination is in two parts. Part I is a written exam; Part II is an oral exam. Parts I and II of the doctoral preliminary examination must be taken with a warrant from the Graduate School; and must be taken before the end of the second or third year of full-time enrollment (before completion of 24 or 36 credits for students with a MS or B.S. degree, respectively). Deviation from this plan must be approved by the Graduate Committee.

**Dissertation**
In consultation with the major professor the candidate must select a suitable research project and submit a written research plan. The final dissertation proposal constitutes the student's written research plan which is subject to approval of the PhD Advisory Committee. This plan is to be submitted to the Department. The research plan will be reviewed for progress annually. During the final year of study the candidate must present a seminar, with prior public announcement, on this research and must prepare a dissertation reporting the results of this research. The original research findings embodied in this dissertation should be acceptable for publication in a refereed journal.

**Dissertation Defense**
As the final step toward the degree the candidate must defend the dissertation before the PhD Advisory Committee.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. For additional information on Graduate School PhD requirements, see the Doctor of Philosophy Degree requirements (http://uwm.edu/graduateschool/doctoral-requirements/) section.

**Microbiology, BS**

Microbiology is the study of microorganisms (bacteria, archaea, protists, fungi) and viruses. The Department offers a BS in microbiology with research opportunities to conduct original research and investigate different aspects of microbial structure and function.

Microorganisms were the first living things on earth, and they remain the most abundant and the most diverse of all organisms. They can cause diseases of plants, animals and humans; they play critical roles in biogeochemical cycles and bioremediation; and they are important in the food and biotechnology industries.

As a microbiologist, students will be on the cutting edge of developments in public health, industrial production processes, biotechnology, and drug discovery. The microbiology major prepares students for a variety of careers in the fields of microbiology, virology, molecular biology, biotechnology, and health related professions, for graduate studies in medical microbiology, industrial microbiology, environmental microbiology, microbial biotechnology, and molecular biology, and for professional studies in pharmacy, dentistry, and medicine.

**Course of Study – Bachelor of Science Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide
General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td></td>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td></td>
<td>MATH 116</td>
<td>College Algebra</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

### College of Letters & Science Requirements

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOF 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>
Requirement.

Diversity (CD/+) designation, L&S students must complete the Breadth (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD) designation. **

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Completed in one of the following ways:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
</tr>
</tbody>
</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
</tbody>
</table>

Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Microbiology Major Requirements

Microbiology is the study of microorganisms such as bacteria, archaea, protists, fungi, and viruses. Prospective Microbiology majors should consult with a faculty advisor as early as possible, preferably before the beginning of the junior year, in order to outline an appropriate course of study. Students should consult their advisor at least once each semester.

At least 15 credits of advanced (300 and above) Microbiology courses must be taken in residence at UWM. Students must attain an average GPA of 2.0 in Microbiology courses attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Requirements

The Microbiology major requires a minimum of 34 credits in Microbiology. The required and elective courses in Biological Sciences, CHEM 501, and BMS 534, BMS 535, BMS 539, and BMS 540 count as "Microbiology" courses for this purpose. A combined limit of 6 credits in BIO SCI 290, BIO SCI 695, BIO SCI 697, BIO SCI 698, and BIO SCI 699 counts toward the major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 529</td>
<td>Molecular Biology of Microorganisms</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research Requirement**

Select credits in the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 495</td>
<td>Internship in Biotechnology, Upper Division</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 671</td>
<td>Undergraduate Seminar in Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 698</td>
<td>Independent Study in Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 699</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>HONORS 686</td>
<td>Research in Honors</td>
<td></td>
</tr>
<tr>
<td>HONORS 687</td>
<td>Senior Honors Project</td>
<td></td>
</tr>
<tr>
<td>HONORS 689</td>
<td>Senior Honors Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**Microbiology Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td>2-4</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
<td></td>
</tr>
</tbody>
</table>

Select additional elective credits (see below)

**Other Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 4-5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3-5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 222</td>
<td>Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following options: 9-10

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 123</td>
<td>General Physics Laboratory II (Non-Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Option 3:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**: 61-67

1 When determined by the student's Microbiology faculty advisor to have Microbiology content.

**Additional Electives**

Students choose electives from this list to complete their 26 credits of upper-level (300 or above) microbiology courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 535</td>
<td>Bacterial Pathogenesis</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 542</td>
<td>Biological Electron Microscopy</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 544</td>
<td>Transmission Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 572</td>
<td>Functional Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 597</td>
<td>RNA Structure, Function, and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry, Protein Structure and Function</td>
<td>3</td>
</tr>
<tr>
<td>BMS 534</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 535</td>
<td>Medical Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BMS 539</td>
<td>Public Health Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 540</td>
<td>Public Health Microbiology Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Only BIO SCI 699 or HONORS 686, HONORS 687, or HONORS 689 projects that are determined by the student's Microbiology faculty advisor to have microbiology content count toward the major.

2 Students may elect to take these BMS courses to earn credit toward the Microbiology major option provided that they earn 30 advanced credits in Natural Sciences within the College of Letters and Science, as required for the BS degree.

---

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Additional Electives

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2 Students may elect to take these BMS courses to earn credit toward the Microbiology major option provided that they earn 30 advanced credits in Natural Sciences within the College of Letters and Science, as required for the BS degree.
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional programs. The student should attend fall or spring departmental advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Department Advising

Students should contact an advisor (uwm.edu/biology/undergraduate/advising/) (http://uwm.edu/biology/undergraduate/advising/) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor (uwm.edu/biology/undergraduate/advising/) (http://uwm.edu/biology/undergraduate/advising/) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

Major or Minor Declaration:

Biological Sciences students should be enrolled in BIO SCI 150 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors (uwm.edu/biology/undergraduate/declare-major/minor/ (http://uwm.edu/biology/undergraduate/declare-major/minor/)).

Failure to complete a declaration of major may result in a delay in graduation.

Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Department directly, biosci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/biology/undergraduate/major-in-microbiology/

Business and Technical Communications, Undergraduate Certificate

In today’s uncertain economy, it is more important than ever for workers to be multi-skilled and flexible in their professional areas. The Business and Technical Communications Undergraduate Certificate combines an innovative approach with practical skills in writing, research, communication, and technologies that will enable students to improve their skills for working in a broad range of contexts.
Students will develop competencies in communication that are critical to a wide range of contemporary jobs and organizations:

- Business and technical communication
- Strategic writing skills
- Organizational leadership skills
- Information design
- Project management

The Certificate is available in a traditional face-to-face and online format, and is also available via the University of Wisconsin System’s Flexible Option. The UW Flexible Option offers a new way to earn a college degree or certificate, different from both face-to-face classroom instruction and traditional online instruction (http://flex.wisconsin.edu/competency-based-education-what-it-is-how-its-different-and-why-it-matters-to-you/).

In the UW Flexible Option program, you will:

- Earn credit for what you know
- Advance at your own pace
- Receive personalized support
- Start when you want, at the beginning of any month
- Learn skills employers value

**Eligibility**

Students who wish to enroll in the Undergraduate Certificate must be admitted to UWM and will have to meet the basic prerequisites of the courses that are equivalent to each given competency set. For ENGLISH 206, that will mean having passed or tested out of ENGLISH 102. All other courses in the Certificate require ENGLISH 206 as a prerequisite. Students concurrently completing a bachelor’s degree receive the Certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students will be awarded the Certificate upon successful completion of all program requirements.

**Program Requirements**

To obtain the certificate, students first must complete ENGLISH 206, after which they may study the additional competency sets in any order. Completing the Undergraduate Certificate means having gained credit in all six courses, with a minimum grade point average of 2.500. Students also must meet College of Letters and Science residency requirements, which means that at least nine of their Certificate upper-level (numbered 300 and above) credits must be earned at UWM.

**Code** | **Title** | **Credits**
--- | --- | ---
ENGLISH 206 | Technical Writing | 3
ENGLISH 428 | Strategic Writing for Organizations | 3
ENGLISH 429 | Technical Communications and Professional Leadership | 3
ENGLISH 435 | Rhetoric and Professional Writing | 3
ENGLISH 437 | Project Management for Professional Writers | 3
ENGLISH 439 | Information Design | 3

**Total Credits** | **18**

**Contact Information**

Current Students contact Associate Professor Rachel Spilka, spilka@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu


**Celtic Studies**

Celtic Studies examines the history, culture, and languages of the Celtic region.

The Center for Celtic Studies provides interdisciplinary, international educational opportunities for UWM students. Our program includes on-campus instruction by UWM and visiting international faculty, as well as study-abroad options in Ireland, Great Britain, and Europe. We provide a wide range of course and research topics relating to cultures both historical and modern—that share Celtic influence: the early Continental Celts and the Breton, Cornish, Galician, Irish, Manx, Scots, and Welsh peoples.

Students can concentrate their studies on the Celtic languages, both spoken and written, or they may choose to investigate the broader themes of the Celtic world, such as art, archaeology, literature, history, folklore, music and myth.

**Programs**

- Celtic Studies, Undergraduate Certificate (p. 774)

**Celtic Studies, Undergraduate Certificate**

Celtic Studies examines the history, culture, and languages of the Celtic region.

The Undergraduate Certificate in Celtic Studies is open to all students interested in learning about the history, folklore, art, language, and culture of Ireland, Scotland, and Wales. The features of the region are explored from both a historical perspective and through a modern day lens. The certificate complements a number of different majors such as history, political science, English, anthropology, and art history, and can make graduates more marketable for international careers and graduate programs.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

**Eligibility**

The Undergraduate Certificate Program in Celtic Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. All students will receive the certificate upon successful completion of the program requirements.
## Requirements

To obtain the certificate, students must complete 18 credits in required courses with a minimum GPA of 2.750, including CELTIC 133 and at least 9 credits in upper-division (numbered 300 and above) courses selected from Celtic courses and/or the list of approved electives. At least half the credits for the certificate must be taken in residence at UWM. All students are urged to participate in a study abroad program. Credits earned via study abroad through a UWM-sponsored program count as residence credits. No more than 9 credits from a single curricular area may count toward the certificate requirements, and students must select courses from at least three different curricular areas in completing their requirements.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the certificate program committee.

Students elect one of the following options:

### Option A: Language Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELTIC 133</td>
<td>Celtic Crossings: Overview of the History and Cultures of the Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 203</td>
<td>Third Semester Irish Gaelic</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 204</td>
<td>Fourth Semester Irish Gaelic</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select at least 9 additional credits numbered 300 or above from Celtic courses and/or the approved Celtic studies electives list

Total Credits 18

### Option B: Cultural Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELTIC 133</td>
<td>Celtic Crossings: Overview of the History and Cultures of the Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 103</td>
<td>First Semester Irish Gaelic</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select at least 12 additional credits from Celtic courses and/or the approved Celtic studies electives list

**Recommended**

Students in the cultural emphasis are encouraged, but not required, to take the following course:

| CELTIC 104 | Second Semester Irish Gaelic                           |         |

Total Credits 18

### Approved Celtic Studies Electives

Students may select from all Celtic courses or any of the following courses offered in other areas.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 381</td>
<td>Honors Seminar: (The Celtic World)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions:</td>
<td>2-3</td>
</tr>
</tbody>
</table>

**Subtitles:**

Irish Dance History and Practice

Irish Step Dance

| ENGLISH 192 | First-Year Seminar: (Celtic Folk and Fairy Tales)      | 3       |
| ENGLISH 229 | Introduction to Modern Literature: (Irish Modernism)    | 3       |
| ENGLISH 243 | Introduction to Literature by Women:                   | 3       |

**Subtitles:**

Irish Women Writers

| ENGLISH 245 | The Life, Times, and Work of a Literary Artist: (Flannery O'Connor) | 3       |
| ENGLISH 247 | Literature and Human Experience: (Literature from Northern Ireland) | 3       |
| ENGLISH 263 | Introduction to the Novel:                                 | 3       |

**Subtitles:**

Contemporary Celtic Women Writers

| ENGLISH 275 | The Forms of Folk Literature: (Irish Myth and Folklore)   | 3       |
| ENGLISH 277 | Introduction to Ethnic Minority Literature: (Irish American Literature) | 3       |
| ENGLISH 285 | Modern Irish Language and Literature in Translation      | 3       |
| ENGLISH 306 | Survey of Irish Literature                               | 3       |
| ENGLISH 325 | The Art of Fiction: (The Irish Short Story)              | 3       |
| ENGLISH 344 | Modern Drama: (Contemporary British and Irish Plays)     | 3       |
| ENGLISH 370 | Folk Literature: (Folklore of the Celts)                 | 3       |
| ENGLISH 518 | Studies in Irish Literature                             | 3       |
| ENGLISH 622 | Seminar in Irish Literature                             | 3       |
| HIST 200   | Historical Roots of Contemporary Issues:                | 3       |

**Subtitles:**

Ireland: A Celtic Nation

The Celtic Cultural Experience

Ireland's English Problem

| HIST 235   | English History to 1688                                | 3       |
| HIST 236   | Britain Since 1688: Rise and Decline of a Great Power   | 3       |
| HIST 370   | Topics in the History of Religious Thought: (Christianity in Early England and Ireland) | 3       |
| HIST 371   | Topics in European History: (Christianity in Early England and Ireland) | 3       |
| PORTUGS 499 | Ad Hoc: (Galician Culture: An Overview)                | 1-6     |
| SPANISH 123 | Regional Languages of Spain, First Semester: (Galician) | 3-6     |
| SPANISH 124 | Regional Languages of Spain, Second Semester: (Galician) | 3-6     |
| SPANISH 377 | Introduction to Galician Culture                       | 3       |
| THEATRE 490 | Topics in Theatre:                                    | 1-4     |

**Subtitles:**

Irish Dance History and Practice
Chemistry and Biochemistry

While our faculty are internationally recognized in all of the major divisions of chemistry, our department is particularly strong in Medicinal Chemistry, Biochemistry, and Surface Science. We are a midsized department where students receive advanced training and carry out cutting-edge research that crosses the bounds of traditional chemistry into the fields of physics, materials, life science and science education.

Programs

• Biochemistry, BA (p. 777)
• Biochemistry, BS (p. 782)
• Chemistry, BA (p. 787)
• Chemistry, BS (p. 793)
• Chemistry, Minor (p. 798)
• Chemistry, MS (p. 798)
• Chemistry, PhD (p. 799)
• Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 800)
• Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 801)
• Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 802)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolyn Aita</td>
<td>Distinguished Prof</td>
<td>PhD</td>
<td>Ohio University</td>
<td></td>
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</tr>
<tr>
<td>Joseph H. Aldstadt</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Groningen, Netherlands</td>
<td></td>
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<tr>
<td>Alexander Arnold</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Utah</td>
<td></td>
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<tr>
<td>Dennis W. Bennett</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Duisburg, Germany</td>
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<tr>
<td>Anja Blecking</td>
<td>Assistant Prof</td>
<td>PhD</td>
<td>Fudan University, PR China</td>
<td></td>
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<tr>
<td>Jian Chen</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>James M. Cook</td>
<td>Distinguished Prof</td>
<td>PhD</td>
<td>University of Arizona</td>
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<tr>
<td>Mark Dietz</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Benjamin Feinberg</td>
<td>Professor</td>
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<tr>
<td>David Frick</td>
<td>Professor</td>
<td>PhD</td>
<td>The Johns Hopkins University</td>
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</tr>
<tr>
<td>Peter Geissinger</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>University of Bayreuth, Germany</td>
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<tr>
<td>E. Alexander Hill</td>
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<tr>
<td>M. Mahmum Hossain</td>
<td>Professor</td>
<td>PhD</td>
<td>University of South Carolina</td>
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</tr>
<tr>
<td>Calvin O. Huber</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Guilherme Indig</td>
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<td>PhD</td>
<td>University of Sao Paulo, Brazil</td>
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<tr>
<td>Peter J. Kovacic</td>
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<tr>
<td>Shama Mirza</td>
<td>Assistant Prof</td>
<td>PhD</td>
<td>Indian Institute of Chemical Technology</td>
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<tr>
<td>Graham Moran</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>University of New England, Australia</td>
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<tr>
<td>Kristen L. Murphy</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Andrew Pacheco</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Arsenio Pacheco-Olivella</td>
<td>Professor</td>
<td>PhD</td>
<td>University of British Columbia</td>
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<tr>
<td>Xiaohua Peng</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Osnabruke, Germany</td>
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<tr>
<td>David H. Petering</td>
<td>Distinguished Prof</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
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</tr>
<tr>
<td>Mary E. Schaff</td>
<td>Professor</td>
<td>MS</td>
<td></td>
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</tr>
<tr>
<td>Alan Schwabacher</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>Columbia University</td>
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<tr>
<td>Frank Shaw</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>B. Richard Siebring</td>
<td>Professor</td>
<td>PhD</td>
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</tr>
<tr>
<td>Nicholas R. Silvaggi</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Connecticut-Storrs</td>
<td></td>
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</tr>
<tr>
<td>George Sosnovsky</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Kristene K. Surerus</td>
<td>Associate Prof</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
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</tr>
</tbody>
</table>
Biochemistry, BA

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Biochemistry is a specialty within chemistry that focuses on the basic substances and elements that make up living creatures, including plants, animals, and humans.

Biochemistry is a popular major for students preparing to go on to medical school, veterinary school, dental school or other similar healthcare professional programs that require a foundation in both biology and chemistry. However, students also pursue many other types of paths including lab research in areas related to water, healthcare, and manufacturing; forensics work for municipalities or agencies; agriculture; genetics; scientific writing and promotion; sales and marketing in science fields; food safety and production; legal consulting on scientific matters; pharmaceutical production; and more.

Graduate studies in Biochemistry can be found under the Chemistry and Biochemistry (http://uwm.edu/letters-science/programs/?classification=GRAD) department, with both a Master of Science and the terminal PhD available.

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
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</table>

**Quantitative Literacy**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong></td>
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<td></td>
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<tr>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
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</table>
Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
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<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
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<td>ECON 210</td>
<td>Economic Statistics</td>
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<td>GEG 247</td>
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<td>HIST 595</td>
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<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
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</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
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</tbody>
</table>
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
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<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
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<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
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<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
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</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ or CD designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
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<tr>
<td></td>
<td>Select 3 credits</td>
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<tr>
<td></td>
<td>Humanities</td>
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</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Biochemistry Major Requirements
The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.
There are two options in the biochemistry major:

- Biochemistry General Option
- Industrial Fermentation and Biotechnology Option (which is offered jointly with the Department of Biological Sciences)

**Requirements**

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

**Biochemistry General Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
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</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
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<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
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<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
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</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
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<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
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</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Biological Science Electives**

Select 7 credits (see below)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 356</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 529</td>
<td>Molecular Biology of Microorganisms</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 564</td>
<td>Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 572</td>
<td>Functional Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
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**Industrial Fermentation and Biotechnology Option**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
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</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Bioprocess Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division (with &quot;Science Career Transitions&quot; focus)</td>
<td>1-6</td>
</tr>
<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division (satisfies L&amp;S research requirement)</td>
<td>1-6</td>
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</table>
Suggested Timetable for the Biochemistry Major

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>13</strong></td>
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<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>8</strong></td>
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<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>15</strong></td>
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<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
</tr>
<tr>
<td>CHEM 399</td>
<td>Special Chemical Problems</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>16</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Semester 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>6</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI Elective</td>
<td></td>
</tr>
<tr>
<td>CHEM 602 or CHEM 604</td>
<td>Biochemistry Cellular Processes or Biochemistry Metabolism</td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance.
in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/chemistry/undergraduate/biochemistry/

**Biochemistry, BS**

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area’s industrial and scientific community.

**Course of Study: Major Options in Chemistry and Biochemistry**

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Biochemistry is a specialty within chemistry that focuses on the basic substances and elements that make up living creatures, including plants, animals and humans.

Biochemistry is a popular major for students preparing to go on to medical school, veterinary school, dental school or other similar healthcare professional programs that require a foundation in both biology and chemistry. However, students also pursue many other types of paths including lab research in areas related to water, healthcare, manufacturing; forensics work for municipalities or agencies; agriculture; genetics; scientific writing and promotion; sales and marketing in science fields; food safety and production; legal consulting on scientific matters; pharmaceutical production; and more.

Graduate studies in Biochemistry can be found under the Chemistry and Biochemistry (http://uwm.edu/letters-science/programs/?classification=GRAD) department, with both a Master of Science and the terminal PhD available.

**Requirements**

**Course of Study – Bachelor of Science Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/).

The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy
the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Arts</strong></td>
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<td></td>
<td>Select 3 credits</td>
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<tr>
<td></td>
<td><strong>Humanities</strong></td>
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<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
</tbody>
</table>

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

---

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

---

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

   Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
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</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
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<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
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<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
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<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
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<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
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</tr>
</tbody>
</table>
III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement.

Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Completed in one of the following ways: 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td>Select 3 credits 3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. * 12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. * 12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. * 12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. ** 3</td>
</tr>
</tbody>
</table>

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.
Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Biochemistry Major Requirements
The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

There are three options in the biochemistry major:

- Biochemistry General Option
- Biochemistry with Clinical Pharmacology Option
- Biochemistry with Industrial Fermentation and Biotechnology Option (which is offered jointly with the Department of Biological Sciences)

Requirements
Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Biochemistry General Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6 credits

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<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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</tbody>
</table>

Biochemistry with Clinical Pharmacology Option

<table>
<thead>
<tr>
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</thead>
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<tr>
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<td>Introduction to Biochemistry</td>
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<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
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Clinical Pharmacology Option

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
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</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
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<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
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</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>CHEM 345</td>
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<td>CHEM 560</td>
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<td>Introduction to Biochemistry</td>
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<td>CHEM 601</td>
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<td>Senior Research (satisfies L&amp;S research requirement)</td>
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</tr>
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<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
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<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
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<tr>
<td>CHEM 541</td>
<td>Bioprocess Chemical Engineering</td>
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<tr>
<td>CHEM 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
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<tr>
<td>CHEM/BIO SCI 543</td>
<td>Bioproduct Regulatory Protocols Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division (with &quot;Science Career Transitions&quot; focus)</td>
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<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division (satisfies L&amp;S research requirement)</td>
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<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
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<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
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<td>MTHSTAT 215</td>
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**Industrial Fermentation and Biotechnology Option**

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<tr>
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<td>CHEM 343</td>
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<td>3</td>
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<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
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<td>Credits</td>
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<tr>
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<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
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</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
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<td>Year 4</td>
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<td>CHEM 601</td>
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<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Semester 2</td>
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<td>9</td>
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<tr>
<td>Year 4</td>
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<tr>
<td>Semester 1</td>
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<tr>
<td>CHEM 601</td>
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<td>3</td>
</tr>
</tbody>
</table>
The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/chemistry/undergraduate/biochemistry/

Chemistry, BA

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
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5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Because it is the foundation of other sciences, UWM Chemistry alumni are prepared to go on to countless number of professional roles. While your first impression may be that chemistry majors all end up working in a laboratory surrounded by beakers and test tubes, there is more to the major than that.

Our majors go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1) Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.</td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3 more credits in any 200-level or above Math course</td>
<td>0-18</td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.  

Social Sciences
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.  

Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.  

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.**

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Chemistry Major Requirements
Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Standard Chemistry Major Option
The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

** Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Chemistry Major Requirements
Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Standard Chemistry Major Option
The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.
### Standard Chemistry Major with a Biochemical Option

The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 601</td>
<td>Biochemistry. Protein Structure and Function</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry. Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry. Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
</tbody>
</table>

**Recommended course:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following options:

<table>
<thead>
<tr>
<th>Option 1:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option 2:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
</tr>
</tbody>
</table>

**Total Credits**: 63-67

### Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option

#### Model Four-Year Program

**Year 1**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
</tr>
<tr>
<td>Credits</td>
<td>9</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>Credits</td>
<td>9</td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
</tr>
<tr>
<td>Credits</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>Credits</td>
<td>14</td>
</tr>
</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry (or take in spring)</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
</tr>
<tr>
<td>Credits</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>Credits</td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
</tr>
</tbody>
</table>
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschlig@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/chemistry/undergraduate/
Chemistry, BS

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area’s industrial and scientific community.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Because it is the foundation of other sciences, UWM Chemistry alumni are prepared to go on to countless number of professional roles. While your first impression may be that chemistry majors all end up working in a laboratory surrounded by beakers and test tubes, there is more to the major than that.

Our majors go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/).

The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>
Select 6 credits
Social Sciences
Select 6 credits
Natural Sciences
Select 6 credits (At least two courses including one lab)
UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent
UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements
I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:
1) Completing ENGLISH 102 with a grade of C or higher; or
2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:
1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Completed in one of the following ways:</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

Complete one of the following:

| 3 or more credits in any 200-level or above Math course | |
Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

**Declaration of Major Requirements**

To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

**Standard Chemistry Major Option**

The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>or CHEM 584</td>
<td>Advanced Chemistry Laboratory II</td>
<td></td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>&amp; CHEM 104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**Standard Chemistry Major with a Biochemical Option**

The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
</tbody>
</table>

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**Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option**

**Model Four-Year Program**

**Year 1**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
</tr>
</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry (or take in spring)</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
</tr>
</tbody>
</table>

---

**Recommended Course:**

**MATH 234** Linear Algebra and Differential Equations

**Select one of the following:**

**Option 1:**

- PHYSICS 209 & PHYSICS 214 Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)
- PHYSICS 210 & PHYSICS 215 Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)

**Option 2:**

- PHYSICS 219 Physics I: Calculus-Based, Studio Format
- PHYSICS 220 Physics II: Calculus-Based, Studio Format

**Total Credits:** 77-81
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Chemistry, Minor

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Thus, a minor in chemistry nicely complements any other science major.

Our alumni go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Requirements

The minor in Chemistry consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM.

Students must maintain an average GPA of 2.0 in all minor courses attempted at UWM. In addition, students must attain a 2.0 GPA on all minor courses attempted, including any transfer work. CHEM 106 does not count toward the minor and is not included in the minor GPA.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Select one course from three of the following areas: ²</td>
<td>5-10</td>
</tr>
</tbody>
</table>

Analytical:

- CHEM 221 Elementary Quantitative Analysis
- CHEM 524 Instrumental Analysis

Biochemistry:

- CHEM 501 Introduction to Biochemistry
- CHEM 601 Biochemistry: Protein Structure and Function
- CHEM 602 Biochemistry: Cellular Processes

CHEM 603 Introduction to Biochemistry Laboratory
CHEM 604 Biochemistry: Metabolism

Inorganic:

- CHEM 311 Introduction to Inorganic Chemistry
- CHEM 511 Inorganic Chemistry
- CHEM 614 Bio-Inorganic Chemistry

Organic:

- CHEM 341 Introductory Survey of Organic Chemistry
- CHEM 342 Introductory Organic Chemistry Laboratory
- CHEM 343 Organic Chemistry
- CHEM 344 Organic Chemistry Laboratory
- CHEM 345 Organic Chemistry

Physical:

- CHEM 560 Biophysical Chemistry
- CHEM 561 Physical Chemistry I
- CHEM 562 Physical Chemistry II
- CHEM 563 Physical Chemistry Laboratory

Total Credits 15-20

¹ Students without high school chemistry or whose background in science is weak may need to take CHEM 100 prior to enrolling in CHEM 102.

² At least one course with a laboratory, beyond general chemistry, must be taken.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/chemistry/undergraduate/

Chemistry, MS

The Department of Chemistry and Biochemistry offers a graduate program of studies with a choice of areas of specialization in analytical, organic, inorganic and physical chemistry or in biochemistry. The student is expected to develop breadth of study beyond the boundaries of traditional areas and disciplines. The student is afforded the opportunity of interdisciplinary study in the Surface Studies Laboratory and in the Center for Great Lakes Studies.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus this departmental requirement to be considered for admission to the program.

1. Undergraduate preparation in chemistry and related areas equivalent to a chemistry major which includes at least one year each of physical and organic chemistry with laboratories, and one course each in analytical and inorganic chemistry with physical chemistry prerequisite.

2. Submission of scores from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre). The Chemistry Subject Test is strongly recommended.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. See Special Non-Thesis Option below for additional requirements for admission to that option.

Standard Thesis Option
Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering student is assigned a temporary advisor; a permanent advisor must be selected by the end of the first semester of study. The major professor serves as the student's research mentor.

* This requirement may be modified for part-time students who may be employed during normal hours of the seminar and colloquium.

Graduate School regulations require that a majority of all courses taken be at the 700-999 level.

Prior to initial registration, the student takes advisory examinations to assess that individual's preparation in analytical, organic, inorganic, physical, and biochemistry.

In consultation with the major professor, the student plans a program based on the results of these examinations. The student also must participate in at least one term of part-time teaching as a teaching assistant.

Thesis
The student writes a thesis, essentially a formal report of that student's research. Since the MS is largely a research degree, the quality of research reported in the thesis is an important measure of the student's success in the program.

Comprehensive Examination
The student must pass a final oral examination in defense of the thesis. At the discretion of the examining committee, this examination may include topics in addition to the thesis.

Special Non-Thesis Option For Students With Professional Experience In Chemistry
Additional Admission Requirements
In addition to the general requirements noted above for the master's degree program, applicants must have a minimum of five years of professional chemistry experience beyond the BA or BS degree, including a sizable amount of research or development laboratory work. Since the Department of Chemistry and Biochemistry believes that the problem-solving experience of research is an indispensable part of graduate study, applicants will be interviewed by a faculty committee to assess the prior research experience as appropriate background for the program.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. For this option, the major professor is chosen (by the Graduate Subcommittee) before admission to the program, and serves as a member of the committee which assesses the prior research experience of the student. The major professor should be from the area of chemistry in which the student intends to concentrate the major portion of course efforts.

Credits and Courses
Minimum degree requirement is 30 graduate credits. Normally these include at least five 600-899 level courses, chosen by the student in consultation with the advisor. A minimum grade point average of 3.00 must be earned in formal coursework, not including research courses (CHEM 990-CHEM 996) or seminars (CHEM 912, CHEM 931-CHEM 935). Students must complete a minimum of 6 credits in research. The remaining credits are taken in research and seminars.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM REQUIREMENTS</td>
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<td></td>
</tr>
<tr>
<td>At least five 600- to 899-level courses</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>CHEM 912 Graduate Seminar (audit each semester and graded once)</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Additional Requirements
Papers and Comprehensive Examinations
The student prepares two survey papers exploring subjects in more depth than the coverage in coursework. Of these, one is in a major area and one is in a minor area. These must be approved by the student's examining committee, which consists of three faculty members representing the areas of the papers. One paper must be approved at least six months before the comprehensive examination. An oral comprehensive examination covers both the areas of the papers and other areas at the discretion of the committee.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Chemistry, PhD
The Department of Chemistry and Biochemistry offers a graduate program of studies with a choice of areas of specialization in analytical, organic, inorganic and physical chemistry or in biochemistry. The student is expected to develop breadth of study beyond the boundaries of traditional areas and disciplines. The student is afforded the opportunity of interdisciplinary study in the Surface Studies Laboratory and in the Center for Great Lakes Studies.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus departmental requirements as given for admission to the master's program. A master's degree is not a prerequisite for admission to the PhD program in chemistry.

Reapplication
A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses
Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. The student plans an individual program of study in consultation with the major professor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least six 600- to 899-level courses</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Research courses</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>CHEM 912 Graduate Seminar (audit each semester and graded once)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

Coursework must include one of the following:

- a minor of 9 to 12 credits in a single department;
- a minor of 9 to 12 credits in two or more departments;
- a coherent program of at least 9 credits concentrated in an area of chemistry outside the student's principal area of emphasis.

A Program of Study, including coursework and proposed research, must be approved by the Department. A minimum grade point average of 3.00 must be earned in coursework in Chemistry, not including research (CHEM 900-CHEM 996) or seminars (CHEM 912-CHEM 935). Graduate School regulations require that a majority of all courses taken be at the 700-999 level.

The Department has no formal language requirement but the student is responsible for familiarity with published literature in the area of that student's research.

The student must also participate in at least one semester of part-time teaching as a teaching assistant. The first stage of the student's program includes general preparation as in the master's program, as well as specialized courses in principal areas of interest and the initiation of research.

Admission to the second stage of the PhD program is based upon satisfactory performance in courses, research, and in departmental examinations. Upon entrance, the student takes proficiency examinations in analytical, inorganic, organic, and physical chemistry. Departmental approval to continue in the doctoral program is attained by passing an advanced qualifying examination in the major area. This examination must be completed by the end of the fourth semester of study. In the second stage of the program, the student concentrates on the development and execution of original research. Additional coursework may also be required to complete the program of study.

Additional Requirements
Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned a temporary advisor; a permanent advisor must be selected by the end of the first semester of study. The major professor serves as the student’s research mentor.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

Doctoral Preliminary Examination
The student must take a doctoral preliminary examination. This serves to qualify the student for formal admission by the Graduate School to candidacy for the degree.

Dissertation
Candidates must each present a dissertation reporting the results of independent, original research carried out under the direction of their major professor. At least three months before the Dissertation Defense, at a time when most of the experimental work has been completed, the student meets with the Examining Committee for a preliminary review of the research to be described in the dissertation.

Dissertation Defense
The candidate must, as the final step toward the degree, defend the dissertation in an oral examination. The candidate also presents a public dissertation seminar, describing research in completed form for the Department and others who may be interested. A student who does not pass this examination within five years of admission to candidacy may be required to take another preliminary examination and be readmitted to candidacy.

Time Limit
All degree requirements must be completed within 10 years from the date of initial enrollment in the doctoral program. For additional information view the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).

Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).
Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.50 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 212</td>
<td>Drugs Used and Abused</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 24

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Human Biological Variation</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.50 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
</tbody>
</table>
Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 21-22

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
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<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
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<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 404</td>
<td>Human Biological Variation</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 21

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 21
Childhood and Adolescence Studies, Undergraduate Certificate

The Undergraduate Certificate in Childhood and Adolescence Studies (CAS) covers topics related to children and their social worlds. Through its classes, students examine how race, class, gender, sexuality, and disability impact development and cognition. CAS is an interdisciplinary program built around a core of liberal arts courses, with primary course offerings in sociology and psychology, and other complementary courses drawn from health sciences, social work, education, and criminal justice.

Students complete the certificate with a better understanding of children and adolescence and how they are affected by society, culture, religion, politics, economics, health, and education policy. The certificate complements a number of different majors including education, psychology, sociology, social work and political science, and can make graduates more marketable for jobs that involve working with children.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Childhood and Adolescence Studies Undergraduate Certificate is intended to enhance a bachelor’s degree. The Program is open to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved childhood and adolescence studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

Twelve of the 18 required credits must be earned in residence at UWM. Of these twelve residence credits, nine must be taken at the 300 level or above. Of the 18 required credits, 12 must be in the College of Letters and Science, with at least six of these at the 300 level or above. Three credits must be elected from outside the College of Letters and Science. No more than nine credits from any one department may count toward the Childhood and Adolescence Studies Certificate.

A maximum of six credits in Independent Study may count toward program requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Select at least 6 credits from approved Letters and Science courses below

Select at least 3 credits from approved Non-L&S courses below

Select 3 additional credits from the list of approved courses below

Total Credits 18

1 Students may petition the CAS Advisory Committee for approval of appropriate courses not on the approved list.

Approved Courses

Independent study courses focusing on children and adolescents may be accepted with the approval of the CAS Advisory Committee. If a core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the CAS Advisory Committee to accept another course in its stead. Other courses not on this list but relevant to the study of children and adolescents may be accepted with the approval of the CAS Advisory Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the CAS Advisory Committee. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 451</td>
<td>Rites of Passage in Black Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 545</td>
<td>Raising Children, ‘Race-ing’ Children</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century: (Youth Culture in the Middle East Through Literature, Art, and Film)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Troubled Teens)</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (Teens on TV)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
</tr>
<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (Growing Up)</td>
<td>3</td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (Global Youth Language and Culture)</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 660</td>
<td>Experimental Child Psychology</td>
<td>4</td>
</tr>
<tr>
<td>SOCIOL 246</td>
<td>Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 248</td>
<td>Sociology of Education</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 448</td>
<td>Sociology of Children and Adolescents</td>
<td>3</td>
</tr>
</tbody>
</table>

Non-L&S Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMDIS 240</td>
<td>Normal Speech and Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 671</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children's and Young Adult Literature</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 650</td>
<td>Reading Interests of Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 651</td>
<td>Literature for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 534</td>
<td>Students Placed At Risk (Causes)</td>
<td>3</td>
</tr>
</tbody>
</table>
Communication

The study of communication examines how language is used to generate meanings within and across various contexts, cultures, and media. The mission of the Department of Communication is to provide students with education in the theory, history, ethics and practice of communication and to prepare them for careers and leadership in a wide variety of professions.

Programs

- Communication, BA (p. 804)
- Communication, MA (p. 808)
- Communication, MA: Rhetorical Leadership (p. 810)
- Communication, Minor (p. 811)
- Communication, PhD (p. 812)
- Communication, PhD: Rhetorical Leadership (p. 813)
- Mediation and Negotiation, Graduate Certificate (p. 815)
- Rhetorical Leadership, Graduate Certificate (p. 816)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael R. Allen</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Nancy Burrell</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kathryn A. Dindia</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leslie Harris</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>John R. Johnson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Georgia</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>John Jordan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Sang-Yeon Kim</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Tae-Seop Lim</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Edward A. Mabry</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Kathryn M. Olson</td>
<td>Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Sarah Riforgiate</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Arizona</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Erin Ruppel</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Erin Sahlstein Parcell</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sara Vanderhaagen</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Communication, BA

Communication is a broad field, covering all of the different ways humans can exchange information - orally, through written word, and through nonverbal and visual cues. The study of communication involves the analysis of the communication patterns, settings, and tools that people use. Regardless of industry, in survey after survey, almost every employer ranks communication skills as one of their top three criteria when hiring.

Communication students at UWM not only graduate with top-notch communication skills, but they also have a thorough understanding of communication as a process and as a system. They are the
individuals who can work with all types of people, bringing out their best. Communication majors go on to all types of work, but the common denominator is that their work most likely involves lots of interaction with others. Sales, marketing, media, public relations, human resources, mediation, law, journalism, merchandising, advertising, education, public office, and social welfare are just a few of the most popular post-college careers. At UWM, students can focus their Communication electives around four tracks: interpersonal communication; rhetoric and public communication; intercultural communication; or technology and communication. The Communication major can be completed entirely online if desired. Or, students can mix-and-match online and in-person classes in whatever combination they wish.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning 1</td>
<td>3</td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Complete 3 courses (min. 9 cr) in a single language other than English (including American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>2. Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Selected from courses (not including literature-in-translation or American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Selected from courses at the 3rd semester level and above</td>
<td></td>
</tr>
</tbody>
</table>

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including...
any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Communication Major Requirements
A major in communication consists of at least 36 credits in communication courses. At least 18 of the 36 credits must be numbered 300 or above, 15 of these taken in residence at UWM.

Graduation with a major in Communication requires a cumulative GPA of at least 2.0 in all communication courses attempted at UWM as well as a 2.0 GPA in all major credits attempted, including any transfer work. All courses in the major, with the exception of COMMUN 298, must be taken for graded credit. The College of Letters and Science requires that students complete a research experience in their major. The Department of Communication has structured COMMUN 335, COMMUN 370, and COMMUN 372 to satisfy that requirement. In these courses, students must produce a written final research paper that involves conducting independent research in addition to evaluating research in the field and integrating it with their findings. Students will present their research in oral form to their course colleagues.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 335</td>
<td>Critical Analysis of Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 370</td>
<td>Quantitative Research in Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 372</td>
<td>Qualitative Research in Communication</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 24 credits from across the communication curriculum 24

Total Credits 36

A maximum of 6 credits earned in any combination of the following courses may count toward the minimum number of credits required for the major in communication:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 288</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Specialized Courses: Variable Content and Independent Study
In addition to offering standard coursework, the Department of Communication offers undergraduates opportunities for specialized study.

Variable Content Courses
The content of the following varies each semester. Specific topics are announced in the Schedule of Classes (http://www4.uwm.edu/schedule/):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 192</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 641</td>
<td>Current Topics in Organizational/Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 651</td>
<td>Current Topics in Rhetorical/Public Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 660</td>
<td>Communication Capstone Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 662</td>
<td>Seminar in Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Independent Study Courses
These courses offer students the opportunity to work and study on a one-on-one basis with a faculty member. Students interested in taking any of the following should contact an individual faculty member to determine the faculty member's willingness to sponsor the enrollment:

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<thead>
<tr>
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</tr>
<tr>
<td>COMMUN 288</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 588</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 597</td>
<td>Practicum in Teaching Communication</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 699</td>
<td>Advanced Independent Reading</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Cross-listed Courses
The following-listed courses offered by other academic units may be used to fulfill the requirements of the undergraduate major and minor in communication:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 209</td>
<td>Language in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
</tr>
</tbody>
</table>
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, commdept@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/communication/undergraduate/

Communication, MA

Related Certificates
- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate/)
- Graduate Certificate in Rhetorical Leadership (http://uwm.edu/graduateschool/rhetorical-leadership-certificate/)
- Graduate Certificate in Professional Writing and Communication (http://uwm.edu/graduateschool/professional-writing-communication-certificate/)
- Graduate Certificate in Teaching and Learning in Higher Education (http://uwm.edu/graduateschool/teaching-learning-higher-education-certificate/)

The Department of Communication offers MA and PhD programs. The Master of Arts is designed to provide breadth and depth of study in the following areas: Organizational/Professional Communication, Intercultural/International Communication, Interpersonal Communication/Mediation, and Rhetoric/Public Communication. The program provides initial and advanced preparation for a variety of careers including continued study leading to the PhD degree.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Possess the equivalent of an undergraduate major in speech, speech communication, or related areas.
2. Possess an undergraduate grade point average of 3.00 in the major.
3. Submit three letters of recommendation from persons capable of judging the applicant’s capacity for success in a graduate program of study.
4. Submit scores from verbal, quantitative, and analytical sections of the Graduate Record Examination.
5. Submit a sample of written work from an academic and/or professional assignment.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants without the requisite grade point average may be considered for admission on a probationary basis.

Credits and Courses
The minimum degree requirement is 30 credits, including 24 credits taken in the Department of Communication; that is, a maximum of 6 credits taken outside the department may count toward the total credits required. Students must take 24 of the 30 required credits in courses numbered 700 or above.

Students must complete either a professional project or a thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication: (Subtitled) (6 credit maximum)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 990</td>
<td>Research and Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship (3 credits maximum)</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 999</td>
<td>Independent Study (3 credits maximum)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

MA Portfolio Project
At the master’s level, the MA Portfolio Project (MAPP) is designed to allow students to synthesize their accomplishments during the MA program and identify their strengths and needs as they pursue objectives beyond graduate school. In conjunction with the completion of 30-credit hours (per Department of Communication MA guidelines), students who successfully complete a MAPP will meet the requirements for the MA in Communication.

The MA Portfolio Project will provide students with an opportunity to:

- Compile documentation of academic accomplishments during the pursuit of an MA
- Synthesize the primary contributions of MA coursework
- Critically reflect upon accomplishments in written work.
- Reflect upon the accomplishment of their initial goals and objectives for the MA, and articulate future career goals and objectives that will utilize the skills/knowledge gained.
- Establish a connection with a field expert (e.g., an individual who works in the student's desired employment sector or a member of a community group with whom the student hopes to work) and gain additional information about activities the student may wish to pursue after graduation.
- Reflect upon one’s understanding of future pursuits and draw connections between the MA experience and the nature of this type of work/service.

Additional Requirements
Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The major professor should be designated no later than the end of the student’s first year of enrollment. The incoming student is assigned the Graduate Coordinator or other program faculty member as an initial advisor until a major professor is selected.

Thesis Option
A thesis involves applied or basic research and is a proven method for developing specialized knowledge and skills that can enhance an individual’s expertise within a substantive area of study. A thesis is recommended for students who intend to continue study toward the PhD degree or plan research-related employment. If the thesis option is elected, the student must initiate and write an original research project under the guidance of his/her major professor; the student also must
pass an oral defense of the finished project conducted by his/her thesis committee.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Communication, MA: Rhetorical Leadership

Interested students may complete a concentration in rhetorical leadership that will be designated on their transcripts.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Possess the equivalent of an undergraduate major in speech, speech communication, or related areas.
2. Possess an undergraduate grade point average of 3.00 in the major.
3. Submit three letters of recommendation from persons capable of judging the applicant's capacity for success in a graduate program of study.
4. Submit scores from verbal, quantitative, and analytical sections of the Graduate Record Examination.
5. Submit a sample of written work from an academic and/or professional assignment.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants without the requisite grade point average may be considered for admission on a probationary basis.

Credits and Courses

The minimum degree requirement is 30 credits, including 24 credits taken in the Department of Communication; that is, a maximum of 6 credits taken outside the department may count toward the total credits required. Students must take 24 of the 30 required credits in courses numbered 700 or above.

Students must complete either a professional project or a thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 800</td>
<td>Proseminar: The Discipline of Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Methods</td>
<td></td>
</tr>
<tr>
<td>COMMUN 700</td>
<td>Quantitative Research in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 702</td>
<td>Qualitative Research in Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 770</td>
<td>Measurement and Evaluation in Speech</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Students complete 24 credits in elective courses, most of them selected from courses in the Department of Communication, with the following caveats. A maximum of 6 credits below the 700 level may be counted toward the degree. A maximum of 6 credits in courses outside the department may count toward the degree. No more than 9 credits selected from the combination of COMMUN 998, COMMUN 999, and courses outside the department may count toward the degree. In addition, the following restrictions on the number of credits that may count toward the degree are placed on these courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 800</td>
<td>Seminar: Issues in Communication: (Subtitled) (6 credit maximum)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 990</td>
<td>Research and Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship (3 credits maximum)</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 999</td>
<td>Independent Study (3 credits maximum)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

MA Portfolio Project

At the master's level, the MA Portfolio Project (MAPP) is designed to allow students to synthesize their accomplishments during the MA program and identify their strengths and needs as they pursue objectives beyond graduate school. In conjunction with the completion of 30-credit hours (per Department of Communication MA guidelines), students who successfully complete a MAPP will meet the requirements for the MA in Communication.

The MA Portfolio Project will provide students with an opportunity to:

- Compile documentation of academic accomplishments during the pursuit of an MA
- Synthesize the primary contributions of MA coursework
- Critically reflect upon accomplishments in written work.
- Reflect upon the accomplishment of their initial goals and objectives for the MA, and articulate future career goals and objectives that will utilize the skills/knowledge gained.
- Establish a connection with a field expert (e.g., an individual who works in the student's desired employment sector or a member of a community group with whom the student hopes to work) and gain additional information about activities the student may wish to pursue after graduation.
• Reflect upon one’s understanding of future pursuits and draw connections between the MA experience and the nature of this type of work/service.

Rhetorical Leadership Concentration
The concentration requires the following courses, which students may select to meet the MA degree’s course requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select three of the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 655</td>
<td>Cultural Training and Adjustment</td>
</tr>
<tr>
<td>COMMUN 667</td>
<td>Great American Speakers and Issues</td>
</tr>
<tr>
<td>COMMUN 672</td>
<td>Communication and Social Order</td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication ¹</td>
</tr>
<tr>
<td>COMMUN 735</td>
<td>Rhetorical Theory (title change pending)</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice (if not selected above)</td>
</tr>
<tr>
<td>COMMUN 835</td>
<td>Seminar in Contemporary Public Address</td>
</tr>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)</td>
</tr>
<tr>
<td>COMMUN 862</td>
<td>Public Deliberation</td>
</tr>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
</tr>
<tr>
<td>COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy (if not selected above)</td>
</tr>
<tr>
<td>COMMUN 873</td>
<td>The Digital Mirror</td>
</tr>
<tr>
<td>COMMUN 882</td>
<td>The Rhetoric of Kenneth Burke</td>
</tr>
<tr>
<td>COMMUN 893</td>
<td>Rhetoric of and the Internet</td>
</tr>
<tr>
<td>COMMUN 972</td>
<td>Advanced Methods in Communication Research: (Subtitle, with a rhetorical topic) ¹</td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship (with rhetorical leadership topic directed by</td>
</tr>
<tr>
<td></td>
<td>a member of the Rhetorical Leadership Committee)</td>
</tr>
</tbody>
</table>

Total Credits 15

¹ Students may count COMMUN 701 or COMMUN 972, but not both, toward concentration requirements. COMMUN 701 can count as a concentration elective or the required methods course above—not both.

These courses complete one content area and 12 elective credits of the degree.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The major professor should be designated no later than the end of the student’s first year of enrollment. The incoming student is assigned the Graduate Coordinator or other program faculty member as an initial advisor until a major professor is selected.

Thesis Option
A thesis involves applied or basic research and is a proven method for developing specialized knowledge and skills that can enhance an individual’s expertise within a substantive area of study. A thesis is recommended for students who intend to continue study toward the PhD degree or plan research-related employment. If the thesis option is elected, the student must initiate and write an original research project under the guidance of his/her major professor; the student also must pass an oral defense of the finished project conducted by his/her thesis committee.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Communication, Minor

Communication is a broad field, covering all of the different ways humans can exchange information - orally, through written word, and through nonverbal and visual cues. The study of communication involves the analysis of the communication patterns, settings, and tools that people use. Regardless of industry, in survey after survey, almost every employer ranks communication skills as one of their top three criteria when hiring.

Communication students at UWM not only graduate with top-notch communication skills, but they also have a thorough understanding of communication as a process and as a system. They are the individuals who can work with all types of people, bringing out their best. Sales, marketing, media, public relations, human resources, mediation, law, journalism, merchandising, advertising, education, public office, and social welfare are just a few of the most popular post-college careers.

At UWM, students can focus their Communication electives around four tracks: interpersonal communication; rhetoric and public communication; intercultural communication; or technology and communication.

The Communication minor can be completed entirely online if desired. Or, students can mix-and-match online and in-person classes in whatever combination they wish.

Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM, and at least a 2.0 GPA on all minor credits attempted when any transfer work is included along with the UWM work. In addition, students must earn at least a B-grade in each of the three core courses, COMMUN 101, COMMUN 103, and COMMUN 105. A minor in communication consists of at least 18 credits in communication courses, as distributed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 105</td>
<td>Business and Professional</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communication</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 9 credits numbered 300 or above (must be taken in residence at UWM) 9

Total Credits 18

Specialized Courses: Variable Content and Independent Study

In addition to offering standard coursework, the Department of Communication offers undergraduates opportunities for specialized study.

Variable Content Courses

The content of the following varies each semester. Specific topics are announced in the Schedule of Classes (http://www4.uwm.edu/schedule/):

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<td>Current Topics in Rhetorical/Public Communication:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 660</td>
<td>Communication Capstone Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 662</td>
<td>Seminar in Communication:</td>
<td>3</td>
</tr>
</tbody>
</table>

Independent Study Courses

These courses offer students the opportunity to work and study on a one-on-one basis with a faculty member. Students interested in taking any of the following should contact an individual faculty member to determine the faculty member’s willingness to sponsor the enrollment:

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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 288</td>
<td>Research Practicum</td>
<td>1-3</td>
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<tr>
<td>COMMUN 588</td>
<td>Research Practicum</td>
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</tr>
<tr>
<td>COMMUN 597</td>
<td>Practicum in Teaching Communication:</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 699</td>
<td>Advanced Independent Reading</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Cross-listed Courses

The following courses offered by other academic units may be used to fulfill the requirements of the undergraduate major and minor in communication:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 209</td>
<td>Language in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Courses

The following courses offered by the Department of English may be of interest to students in communication but may not be used to fulfill requirements of the major and minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact the Department directly, commdept@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/communication/undergraduate/

Communication, PhD

Related Certificates

- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate/)
- Graduate Certificate in Rhetorical Leadership (http://uwm.edu/graduateschool/rhetorical-leadership-certificate/)
- Graduate Certificate in Professional Writing and Communication (http://uwm.edu/graduateschool/professional-writing-communication-certificate/)
- Graduate Certificate in Teaching and Learning in Higher Education (http://uwm.edu/graduateschool/teaching-learning-higher-education-certificate/)

The Department of Communication offers MA and PhD programs. The Doctor of Philosophy in Communication provides study and training for entry into academic or professional careers that would necessitate theory-driven basic or applied research on communication practices and outcomes. The program’s thrust emphasizes studying the effects of professional communication practices on organizational goals and structure, the processes of interpersonal communication and conflict resolution, and the conduct of civic practice and public communication.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/), hold a master’s degree in communication or a related field, and meet these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA of at least a 3.33 (B+) in course work for the master’s degree.
- Submit letters of recommendation from at least three (3) communication professionals attesting to the student’s capability to perform satisfactorily at the doctoral level (academic references preferred).
- Submit a writing sample that demonstrates the applicant’s analytical and critical thinking skills.
Applicants lacking the requisite GPA, and those without the Master of Arts/Science in Communication (or an equivalent degree) may be considered for admission on probation, and may be required to complete preparatory coursework.

Reapplication/Readmission
Students who receive the MA in Communication from UWM must reapply to be considered for admission to the PhD program.

Credits and Courses
To fulfill the credit requirement for the PhD in Communication, a student must complete at least 54 credits beyond the master’s degree, of which at least 48 credits must be in courses numbered 700 or above. Thirty-three (33) credits must be taken from the Communication Department. Students may complete 6 credit hours in courses below 700 offered outside the Department of Communication. Courses taken toward a master’s degree will not apply to the doctoral program of studies. The 54 credits must be distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 6 credits from communication research tools in courses numbered 900 or above</td>
<td>3</td>
</tr>
<tr>
<td>COMM 900</td>
<td>Philosophy and Practice of Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select a minimum of 18 credits reflecting the student designing a thematic program of study combining theory and praxis in the study of communication processes</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select a minimum of 24 additional elective credits</td>
<td>24</td>
</tr>
<tr>
<td>COMM 990</td>
<td>Research and Thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>54</td>
</tr>
</tbody>
</table>

1. Students will determine additional research-tool credits in consultation with their advisor, so as to demonstrate methodological competence in their chosen area of study.

2. No more than 12 credits of COMMUN 990 may be applied toward the 54-credit requirement.

Additional Requirements

Major Professor as Advisor
Initially, unless a student specifically requests a particular faculty member, all doctoral students are assigned an “interim” advisor. After the completion of 12 credits, a student is required to designate a faculty member with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student’s preliminary examination committee, supervise the completion of the PhD dissertation, and conduct the dissertation defense meeting. All students should consult the departmental handbook for additional details on departmental policies and procedures.

Comprehensive Preliminary Examination
A student must pass all components of a comprehensive preliminary examination to be advanced to candidacy for the doctoral degree. The examining committee is responsible for setting an examination schedule agreeable to all parties subject to the constraints that:

1. examinations must include at least 18 hours of questioning, and
2. must be completed in no longer than two (2) calendar weeks.

Each member of the examining committee must read and pass the student on all examination questions the faculty member contributes. The student must receive a passing evaluation from all members of the committee on the written portion of the examination in order to attempt an oral defense of the examination. An affirmative vote constitutes the committee’s decision to advance the student to candidacy for the doctoral degree.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The preliminary examination must be successfully completed within five years of initial enrollment.

Dissertation
The candidate, under the supervision of the major professor and in collaboration with a dissertation committee, must write a dissertation that demonstrates the ability to formulate a research topic and pursue an independent and original investigation of the chosen topic. The practices for the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and four additional graduate faculty members (at least three of whom must be from the Communication Department’s graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation prospectus proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate’s ability to defend decisions made during the course of research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate’s oral remarks, the dissertation committee will vote on passing the candidate’s dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

Time Limit
All components of the PhD program must be completed within 10 years of matriculation.

Communication, PhD: Rhetorical Leadership
Interested students may complete a concentration in rhetorical leadership that will be designated on their transcripts.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
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- Submit letters of recommendation from at least three (3) communication professionals attesting to the student's capability to perform satisfactorily at the doctoral level (academic references preferred).
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 900</td>
<td>Philosophy and Practice of Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 990</td>
<td>Research and Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

1 Students will determine additional research-tool credits in consultation with their advisor, so as to demonstrate methodological competence in their chosen area of study.

2 No more than 12 credits of COMMUN 990 may be applied toward the 54-credit requirement.

Transcript-Designated Concentration in Rhetorical Leadership
Within the Ph.D., students may elect to fulfill a transcript-designated concentration in Rhetorical Leadership by completing 15 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
<td>3</td>
</tr>
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</table>

Electives
Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 735</td>
<td>Rhetorical Theory (title change pending)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 835</td>
<td>Seminar in Contemporary Public Address</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 862</td>
<td>Public Deliberation</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 873</td>
<td>The Digital Mirror</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 882</td>
<td>The Rhetoric of Kenneth Burke</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 893</td>
<td>Rhetoric of and the Internet</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 972</td>
<td>Advanced Methods in Communication Research: (Subtitle, with a rhetorical topic) 1</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor
Initially, unless a student specifically requests a particular faculty member, all doctoral students are assigned an "interim" advisor. After the completion of 12 credits, a student is required to designate a faculty member with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student's preliminary examination committee, supervise the completion of the PhD dissertation, and conduct of the dissertation defense meeting. All students should consult the departmental handbook for additional details on departmental policies and procedures.

Comprehensive Preliminary Examination
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2. must be completed in no longer than two (2) calendar weeks.

Each member of the examining committee must read and pass the student on all examination questions the faculty member contributes. The student must receive a passing evaluation from all members of the
committee on the written portion of the examination in order to attempt an oral defense of the examination. An affirmative vote constitutes the committee's decision to advance the student to candidacy for the doctoral degree.

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**Dissertation**
The candidate, under the supervision of the major professor and in collaboration with a dissertation committee, must write a dissertation that demonstrates the ability to formulate a research topic and pursue an independent and original investigation of the chosen topic. The practices for the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and four additional graduate faculty members (at least three of whom must be from the Communication Department's graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation prospectus proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate's dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

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**Time Limit**
All components of the PhD program must be completed within 10 years of matriculation.

**Mediation and Negotiation, Graduate Certificate**
The Department of Communication, in cooperation with the Master's in Human Resources and Labor Relations (MHRLR) and the Lubar School of Business, offers the Graduate Certificate in Mediation and Negotiation. The program of study is designed to provide practical and theoretical knowledge for students who wish to pursue or advance careers that involve managing or resolving disputes in organizational, educational, community, or family contexts. The program is designed to meet the increasing need of business, organized labor, public sector, and community organizations for people with skills in conflict resolution.

Using an interdisciplinary approach, the program offers a basic knowledge of mediation and negotiation between individuals and across organizations, allows some specialization in further coursework, and is integrated with a final course involving either field-work or a research paper written under the direction of an expert in the area. Students can complete the Graduate Certificate in Mediation and Negotiation while enrolled either part-time or full-time.

With the approval of the program, students admitted to either the Master of Arts in Communication or the Master of Human Resources and Labor Relations degree program may apply courses taken to meet certificate requirements toward their degree.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Eligibility and Admission**
Students applying for the Certificate Program in Mediation and Negotiation must hold a bachelor's degree and must have earned a 2.75 GPA overall or must furnish substantial evidence of ability to succeed in graduate-level work.

**Application**
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Credits and Courses**
The certificate requires 12 credits, including 9 credits of coursework and 3 credits of field work or research.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REQUIRED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 753</td>
<td>Collective Bargaining</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
<td></td>
</tr>
<tr>
<td>IND REL 715</td>
<td>Workplace Dispute Resolution</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiation</td>
<td></td>
</tr>
<tr>
<td>FIELD WORK OR RESEARCH REQUIREMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship</td>
<td></td>
</tr>
<tr>
<td>COMMUN 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>IND REL 801</td>
<td>Research Project in Industrial and Labor Relations</td>
<td></td>
</tr>
<tr>
<td>IND REL 921</td>
<td>Internship in Industrial Relations</td>
<td></td>
</tr>
</tbody>
</table>
**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count toward a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements).  
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Recommended or Related Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 710</td>
<td>Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 823</td>
<td>Seminar in Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 510</td>
<td>Human Relations for Community Organizations &amp; Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 711</td>
<td>Labor Relations Law</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 12

**Additional Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Eligibility and Admission**

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Contact Information**

BLT, 812

**Phone:** (414) 229-4310

mhrl@uwm.edu

http://uwm.edu/human-resources-labor-relations/graduate/certificates/

**Rhetorical Leadership, Graduate Certificate**

Leadership is a highly valued, yet always scarce resource in all areas requiring coordinated action: civil society, professional work, profit and non-profit venues, religious and social action contexts. Communication’s Rhetorical Leadership certificate program prepares leaders with humanistic knowledge, skills and attitudes through five graduate courses.

"Rhetorical Leadership and Ethics" covers rhetoric’s role in and potential for responsible leadership in multiple arenas; it is informed by the long history of debate over the legitimacy of studying rhetoric as a means of promoting joint action.

"Theories of Rhetorical Communication" introduces certificate students to the vast, nearly three millennia-long theoretical range of the rhetorical tradition.

"Communication and Social Order" examines how existing institutions and values get established and "naturalized" using symbolic action and conversely how they can be challenged strategically through rhetoric.

The more advanced "Rhetoric of Constituting Community and Social Controversy" addresses explicitly the rhetorical range available to leaders, whether their main goal is constituting communities or promoting change in ways that the existing decision-making channels cannot accommodate.

"Argumentation in Theory and Practice" integrates argumentative theory and practice in ways that are useful for potential leaders; it involves some performance-based learning that requires students to test their preferred theory alternatives in action.

**Admission Requirements**

Application requirements vary by program, please review the application requirements chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 799</td>
<td>Reading and Research</td>
<td></td>
</tr>
<tr>
<td>IND REL 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>IND REL 999</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

**Certificate**

Rhetorical Leadership, Graduate Certificate

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Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select three of the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td></td>
</tr>
<tr>
<td>COMMUN 667</td>
<td>Great American Speakers and Issues</td>
<td></td>
</tr>
<tr>
<td>COMMUN 672</td>
<td>Communication and Social Order</td>
<td></td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 735</td>
<td>Rhetorical Theory (title change pending)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(if not selected above)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 835</td>
<td>Seminar in Contemporary Public Address</td>
<td></td>
</tr>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication: Subtitle, with a rhetorical topic</td>
<td></td>
</tr>
<tr>
<td>COMMUN 862</td>
<td>Public Deliberation</td>
<td></td>
</tr>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
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<td></td>
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<td>The Rhetoric of Kenneth Burke</td>
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</tr>
<tr>
<td>COMMUN 893</td>
<td>Rhetoric of and the Internet</td>
<td></td>
</tr>
<tr>
<td>COMMUN 973</td>
<td>Topics in Rhetorical Research: Subtitled</td>
<td></td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Students who have little experience in positions of responsibility will be encouraged to participate in a relevant internship during the course of their studies. The program will assist students in identifying appropriate opportunities.

Additional Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate program. The Rhetorical Leadership Committee will make such determinations, and its decision is final. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program. No transfer credit is allowed for post-graduate students.

Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit

Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Gainful Employment Disclosure Information

• UWM Financial Aid Gainful Employment (https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary)

Contact Information

Johnston, 210

Phone: (414) 229-4261
kolson@uwm.edu

https://uwm.edu/rhetorical-leadership/
Conservation and Environmental Science

The alarming rate of climate change, habitat destruction and, species extinction over the last 2 decades has catalyzed our resolve to find solutions to growing environmental problems:

- the contamination of air, water and soil;
- the spread of toxic chemicals;
- invading species driving out native populations, and
- the progressive loss of habitats that species need to grow, survive, and reproduce.

These problems are not simple; finding solutions requires the integration and interpretation of biological, chemical, geological, and social sciences. Coursework in our undergraduate interdisciplinary program provides training in areas such as ecosystem management, natural resources conservation, environmental assessment, and environmental education.

**Programs**

- Conservation and Environmental Science, Minor (p. 818)
- Conservation and Environmental Sciences, BA (p. 819)
- Conservation and Environmental Sciences, BS (p. 824)

**Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glen Fredlund</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neal T. O'Reilly</td>
<td>Lecturer</td>
<td>PhD</td>
<td>Marquette University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Conservation and Environmental Science, Minor**

At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM’s own Field Station (http://uwm.edu/letters-science/programs/?discipline=Field+Station), on Lake Michigan aboard UWM’s R/V Neeskay vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.

An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

**Requirements**

The Conservation and Environmental Science minor requires completion of a minimum of 25 credits distributed among CES courses and approved electives, with at least 12 credits in upper-level (numbered 300 and above) courses. Students must complete at least 9 upper-level credits for the minor in residence at UWM and must attain a 2.0 GPA on all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.0 GPA on all minor credits attempted, including transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 100 or GEOG 120</td>
<td>Introduction to the Earth or Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 105</td>
<td>General Chemistry for Engineering</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 102 or BIO SCI 150</td>
<td>Elements of Biology or Foundations of Biological Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management or GEOG 350</td>
<td>3-4</td>
</tr>
<tr>
<td>Select at least 9 upper-level (numbered 300 or above) credits</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>25-27</td>
</tr>
</tbody>
</table>

1. Students pursuing BS degrees and those interested in taking upper-level natural science classes such as BIO SCI 310 should take CHEM 102 and BIO SCI 150 as part of their introductory core requirements.

2. Selected from the list of approved elective courses for the CES major, found here (p. 819) or here (p. 824). At least 6 of these must be taken outside the student's major program and at least 3 must be from the natural sciences.

**Contact Information**

Current Students contact Mai Phillips, phillipm@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/conservation-environmental-science/undergraduate/
Conservation and Environmental Sciences, BA

At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM's own Field Station (http://uwm.edu/letters-science/programs/?discipline=Field+Station), on Lake Michigan aboard UWM’s R/V Neeskay vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.

An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

UWM’s CES major builds on students’ passion to solve environmental issues through either a BS or a BA degree. The BS requires more courses in math, biology, chemistry, and science and is suitable for careers in field or laboratory work, while the BA has fewer electives in science for a career in public programming, education, or administration.

Because of the breadth and flexibility of this major, students should consult with the Director and/or Coordinator to plan a course of study, preferably before the start of their sophomore year. It is particularly important to begin the introductory course sequences early, since they are prerequisites for advanced courses.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
</tbody>
</table>

Achieve a grade of C or better in the following course:

| ENGLISH 102 | College Writing and Research (or equivalent) |

Part B
Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A
Achieve a grade of C or better in one of the following:

| MATH 102 | Mathematical Literacy for College Students II |
| MATH 103 | Contemporary Applications of Mathematics |
| MATH 105 | Introduction to College Algebra |
| MATH 108 | Algebraic Literacy II |
| MATH 111 | Introduction to Logic - Critical Reasoning |
| PHILOS 111 | Introduction to Logic - Critical Reasoning |
| MATH 116 | College Algebra |
| Or equivalent course |

Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (H), Social Sciences (S), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

* Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

* Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.

** Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 and above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Conservation and Environmental Science Major Requirements
For those students interested in the Water Track, please see the Bachelor of Science in Conservation and Environmental Science (p. 824) major.

Coursework for the Major (Conservation and Natural Resources Track)
The Conservation and Natural Resources Track requires a minimum of 54 credits, 29 of which are advanced-level. All students in the Conservation and Natural Resources track must fulfill the required 36 credits (25 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Conservation and Natural Resources Track electives.

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 120</td>
<td>Our Physical Environment</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>or GEO SCI 150</td>
<td>Introduction to Ocean Sciences</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information</td>
<td>3</td>
</tr>
</tbody>
</table>

Mid-Level Distributional Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper-Level Core
Select 18 upper-level approved CES electives with at least 3 credits taken from each of the following areas

- Biological Sciences
- Geosciences
- Geography

Research Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 54

List of Approved Electives in the Conservation and Natural Resources Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 100</td>
<td>Survey of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 289</td>
<td>Internship in Biological Sciences, Lower Division</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 358</td>
<td>Birds of Wisconsin</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 370</td>
<td>Mammalian Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 406</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 430</td>
<td>Animal Behavior-Ethology</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>BIO SCI 440</td>
<td>Ecology and Evolution of Amphibians and Reptiles</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 451</td>
<td>Field Methods in Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 458</td>
<td>Community Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 475</td>
<td>Tropical Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 480</td>
<td>Ecological Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 489</td>
<td>Internship in Biological Sciences, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 505</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 512</td>
<td>Limnology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 523</td>
<td>Evolution and Ecology of Birds</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 562</td>
<td>Topics in Field Biology</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography</td>
<td>2</td>
</tr>
<tr>
<td>CES 289</td>
<td>Internship in Environmental Studies, Lower Division</td>
<td>1-6</td>
</tr>
<tr>
<td>CES 451</td>
<td>Field Methods in Conservation</td>
<td>3</td>
</tr>
<tr>
<td>CES 461</td>
<td>The Politics and Policy of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>CES 489</td>
<td>Internship in Environmental Studies, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>CES 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>CES 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>CES 515</td>
<td>Environmental Law for Natural Resource Managers</td>
<td>3</td>
</tr>
<tr>
<td>CES 550</td>
<td>Introduction to Science Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>CES 551</td>
<td>Application of Science Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>CES 571</td>
<td>Practical Approaches to a Sustainable Future</td>
<td>3</td>
</tr>
<tr>
<td>CES 651</td>
<td>Principles of Stream Management and Restoration</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ECON 328</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 525</td>
<td>The Economics of Water</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 245</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Human Impact on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 411</td>
<td>Physical Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Karst Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Climates of the Past and Climate Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 515</td>
<td>Watershed Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 400</td>
<td>Water Quality</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 443</td>
<td>Glacial and Pleistocene Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 562</td>
<td>Environmental Surface Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 697</td>
<td>Seminar in the Geological Sciences:</td>
<td>1-3</td>
</tr>
<tr>
<td>JHST 432</td>
<td>North American Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 503</td>
<td>Environment and the Media</td>
<td>3</td>
</tr>
<tr>
<td>MTH STAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 350</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Approved CES Course Electives Outside of the College of Letters and Science**

Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the program coordinator before enrolling any of these courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 340</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 375</td>
<td>Topics in Public Health:</td>
<td>3</td>
</tr>
</tbody>
</table>
Statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a Letters and Science advisor can provide a current list of recommended courses.

Declaration of Major
Students wishing to declare the major can obtain the necessary information and materials from the Biological Sciences Office (Lapham Hall, Room 181) or the CES Program Coordinator’s office (Lapham Hall, Room 393) or from their College of Letters and Science advisor.

In order to be accepted into the CES program, students should be in their sophomore year and have completed:
Conservation and Environmental Sciences, BS

At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM’s own Field Station (http://uwm.edu/letters-science/programs/?discipline=Field+Station), on Lake Michigan aboard UWM’s R/V Neeskay vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.

An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

UWM’s CES major builds on students’ passion to solve environmental issues through either a BS or a BA degree. The BS requires more courses in math, biology, chemistry, and science and is suitable for careers in field or laboratory work, while the BA has fewer electives in science for a career in public programming, education, or administration.

Because of the breadth and flexibility of this major, students should consult with the Director and/or Coordinator to plan a course of study, preferably before the start of their sophomore year. It is particularly important to begin the introductory course sequences early, since they are prerequisites for advanced courses.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>PHILOS 111</td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 credits in combination of the two options above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ ) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>
Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Conservation and Environmental Science Major Requirements
Conservation and Environmental Sciences offers two undergraduate tracks with separate sets of required classes: Conservation and Natural Resources and Water Resources.

The Conservation and Natural Resources Track is the broader of the two tracks, and gives students the widest range of options. Areas of emphasis, or focus areas, within this track include Land Resources, Conservation Biology, GIS Application, Natural Resource Policy, and Environmental Interpretation.

The Water Resources Track provides students with knowledge and skills critical for futures relating to water resources. Within this track, students may choose to focus on Environmental Chemistry and Toxicology, Surface and Groundwater Hydrology, or Aquatic Ecology and Limnology. Completion of this track will prepare students for graduate studies in water resources.

Coursework for the Major (Conservation and Natural Resources Track)
The Conservation and Natural Resources Track requires a minimum of 54 credits, 29 of which are advanced-level. All students in the Conservation and Natural Resources track must fulfill the required 36 credits (25 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Conservation and Natural Resources Track electives. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 120</td>
<td>Our Physical Environment</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>or GEO SCI 150</td>
<td>Introduction to Ocean Sciences</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>54</td>
</tr>
</tbody>
</table>

List of Approved Electives in the Conservation and Natural Resources Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 100</td>
<td>Survey of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 289</td>
<td>Internship in Biological Sciences, Lower Division</td>
<td>1-6</td>
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<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 358</td>
<td>Birds of Wisconsin</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 370</td>
<td>Mammalian Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 406</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 430</td>
<td>Animal Behavior-Ethology</td>
<td>3</td>
</tr>
</tbody>
</table>
Coursework for the Major (Water Resources Track)

The Water Resources Track requires a minimum of 61 credits, 29 of which are advanced-level. All students in the Water Resources Track must fulfill the required 43 credits (32 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Water Resources Track electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Human Impact on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 411</td>
<td>Physical Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Karst Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Climates of the Past and Climate Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 515</td>
<td>Watershed Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 548</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 400</td>
<td>Water Quality</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 443</td>
<td>Glacial and Pleistocene Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 562</td>
<td>Environmental Surface Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 697</td>
<td>Seminar in the Geological Sciences</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 503</td>
<td>Environment and the Media</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 350</td>
<td>Environmental Sociology</td>
<td>3</td>
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</table>

Required Introductory Core
List of Approved Electives for the Water Resources Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 406</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 440</td>
<td>Ecology and Evolution of Amphibians and Reptiles</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 512</td>
<td>Limnology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography</td>
<td>2</td>
</tr>
<tr>
<td>CES 461</td>
<td>The Politics and Policy of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>CES 550</td>
<td>Introduction to Science Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>CES 551</td>
<td>Application of Science Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>CES 651</td>
<td>Principles of Stream Management and Restoration</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
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<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ECON 328</td>
<td>Environmental Economics</td>
<td>3</td>
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<tr>
<td>ECON 525</td>
<td>The Economics of Water</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Human Impact on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 306</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 411</td>
<td>Physical Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td>3</td>
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<tr>
<td>GEOG 515</td>
<td>Watershed Analysis and Modeling</td>
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</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
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<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
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<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 400</td>
<td>Water Quality</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 562</td>
<td>Environmental Surface Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 637</td>
<td>Planetary Geology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 503</td>
<td>Environment and the Media</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 350</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved CES Course Electives For Both Tracks Outside of the College of Letters and Science

Note: Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the Coordinator before enrolling in any of these courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 340</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 512</td>
<td>Freshwater Sciences Practicum:</td>
<td>2-4</td>
</tr>
<tr>
<td>FRSHWTR 562</td>
<td>Principles of Aquaculture Systems</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 563</td>
<td>Finnish Aquaculture and Nutrition Principles</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 564</td>
<td>Water Quality in Aquaculture</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 567</td>
<td>Fish Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 375</td>
<td>Topics in Public Health:</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 591</td>
<td>Introduction to Urban Geographic Information Systems (GIS) in Planning</td>
<td>3</td>
</tr>
</tbody>
</table>
Declaration of Major

Students wishing to declare the major can obtain the necessary information and materials from the Biological Sciences Office (Lapham Hall, Room 181) or the CES Program Coordinator's office (Lapham Hall, Room 393) or from their College of Letters and Science advisor.

In order to be accepted into the CES program, students should be in their sophomore year and have completed:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 120</td>
<td>Our Physical Environment</td>
<td></td>
</tr>
</tbody>
</table>

In addition to course work in the major, good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a Letters and Science advisor can provide a current list of recommended courses.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Mai Phillips, phillipm@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/conservation-environmental-science/undergraduate/

Cultures and Communities, Undergraduate Certificate

One of the most exciting things about college is the opportunity to meet and work with people from so many different backgrounds and walks of life. Cultures and Communities operates around the premise that learning to work across differences of cultural background and experience is a process essential to intellectual growth and lifelong learning, and ultimately to building a better world. The Cultures and Communities (CC) undergraduate certificate program promotes such experiences through its unique array of interdisciplinary classes, collaborative projects, and community-based learning.

The Certificate provides students with a thorough understanding of the social construction of cultural identities and their relationship to history, society, politics, and economics. Students explore the multicultural construction of America and examine the community and culture of art, sexuality, gender, race, health, ethics, religion, and technology. The certificate is valuable and applicable in any career that involves working with people - which is almost everything.

As part of the requirements for the certificate, students complete a service learning component where they work in the community, tying their classroom learning to real world experiences. And, because so many of these classes also count as general education requirements, many students find it quite seamless to add the certificate into their education plan.
Eligibility
The Cultures and Communities Certificate is open to all degree-seeking undergraduates at UWM to complement the student’s major. All students are required to complete an exit survey before the certificate is awarded.

Requirements
Students must complete at least 3 credits in each of the areas below, including one course with a service learning component. All students are required to complete an exit survey before the certificate is awarded.

The following list of courses approved for the CC certificate indicates which requirement of the certificate is fulfilled by each course and how each course counts toward the University General Education Requirements. L&S students who wish to have their CC courses count toward their Letters and Science breadth requirements must select L&S courses. A single course may satisfy only one area. For the most up-to-date list, contact the Cultures and Communities Program office.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 125</td>
<td>Economics of the Black Community (SS/CD)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 192</td>
<td>First-Year Seminar: (African American Life Stories) (HU)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 193</td>
<td>First-Year Seminar: (Race in Popular Culture) (SS)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers (HU/CD)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 210</td>
<td>The African-American Novel (HU/CD)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 215</td>
<td>Introduction to Black Social and Cultural Traditions (SS)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 228</td>
<td>Introduction to Black Political Economy (SS)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 250</td>
<td>Black Women and White Women in the Contemporary United States (SS)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 265</td>
<td>Psychological Effects of Racism (SS/CD)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 314</td>
<td>The School in African-American Life (HU/CD)</td>
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<tr>
<td>AIS 101</td>
<td>Introduction to American Indian Studies (SS/CD)</td>
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<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture (CD)</td>
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<tr>
<td>AIS 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)</td>
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<tr>
<td>AIS 192</td>
<td>First-Year Seminar: (HU)</td>
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<td>AIS 193</td>
<td>First-Year Seminar: (SS)</td>
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<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (SS/CD)</td>
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<td>AIS 251</td>
<td>Third Semester Anishinaabemowin (Ojibwe) (CD)</td>
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<td>AIS/HIST 262</td>
<td>North American Indian History to 1887 (SS/CD)</td>
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<td>AIS/HIST 263</td>
<td>North American Indian History Since 1887 (SS/CD)</td>
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<td>AIS/ENGLISH 276</td>
<td>Introduction to American Indian Literature: (HU/CD)</td>
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<td>AIS/SOCIOL 321</td>
<td>Contemporary Issues of the American Indian (SS/CD)</td>
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<td>AIS/ENGLISH 372</td>
<td>Survey of American Indian Literature (HU/CD)</td>
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<td>AIS/HIST 473</td>
<td>History of Wisconsin Indians (CD)</td>
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<td>Topics in North American Indian History (CD)</td>
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<td>American Indian History, Law, and Government (CD)</td>
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<td>First-Year Seminar: (SS) Approved topics include Museums: Gateways to Modern Life; Oral Traditions; or Museums for Educators</td>
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<td>American Indian Peoples of Wisconsin (SS/CD)</td>
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<td>ARABIC 164</td>
<td>Arabs and Islam in America (HU)</td>
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<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education (A/CD)</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication (SS/CD)</td>
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<td>Economics of Discrimination (SS/CD)</td>
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<td>ED POL 113</td>
<td>The Milwaukee Community (SS)</td>
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<td>ED POL 212</td>
<td>Educational Issues in Spanish Speaking Communities (HU/CD)</td>
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<td>ED POL 460</td>
<td>The Chicano Experience (HU/CD)</td>
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<td>ED POL 560</td>
<td>Education and Hispanics (SS/CD)</td>
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<td>ED POL 621</td>
<td>History of Native Education and Policy Development (CD)</td>
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<td>ED POL 625</td>
<td>Race Relations in Education (CD)</td>
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<td>First-Year Seminar. (HU)</td>
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<td>English 243</td>
<td>Introduction to Literature by Women: (HU) Approved topics include Fiction by</td>
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<td></td>
<td>Women of Color or Women, Race, and Class</td>
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<td>ENGLISH 248</td>
<td>Literature and Contemporary Life: (HU)</td>
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<td>English 263</td>
<td>Introduction to the Novel: (HU) (Queer Modernism)</td>
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<td>ENGLISH/AIS 276</td>
<td>Introduction to American Indian Literature: (HU/CD)</td>
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<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature: (HU/CD)</td>
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<td>ENGLISH/LATINO 279</td>
<td>Introduction to U.S. Latino/a Literature: (HU/CD)</td>
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<td>ENGLISH 280</td>
<td>Introduction to Asian-American Literature: (HU/CD)</td>
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<td>ENGLISH 281</td>
<td>Introduction to African-American Literature: (HU/CD)</td>
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<td>ENGLISH/AIS 372</td>
<td>Survey of American Indian Literature: (HU/CD)</td>
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<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature (HU/CD) (Topic: Z. N. Hurston, A.</td>
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<td></td>
<td>Walker, T. Morrison, G. Naylor)</td>
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<td>Survey of Asian American Literature (CD)</td>
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<td>Survey of African-American Literature to 1930 (CD)</td>
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<td>Survey of African-American Literature, 1930 to the Present (CD)</td>
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<td>ENGLISH 463</td>
<td>Writers in African-American Literature: (CD)</td>
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<td>ENGLISH 517</td>
<td>Studies in African-American Literature: (CD)</td>
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<td>ENGLISH/LATINO 523</td>
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<td>ENGLISH 524</td>
<td>Studies in Asian-American Literature: (CD)</td>
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<td>ENGLISH 685</td>
<td>Honors Seminar. (HU)</td>
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<td>ETHNIC 101</td>
<td>The Making of American Cultures: Africans, Europeans, and Indian Nations</td>
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<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
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<td>ETHNIC 200</td>
<td>Racial Minorities in the United States (SS/CD)</td>
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<td>Selected Topics in Ethnic Studies: (SS) (Topic: Blacks, Jews, and Black Jews)</td>
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<td>ETHNIC/HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life (SS/CD)</td>
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<td>ETHNIC/LGBT 275</td>
<td>Queer Migrations (HU/CD)</td>
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<td>ETHNIC 325</td>
<td>Gender, Race, and Ethnicity in Milwaukee: (HU/CD)</td>
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<td>EXCEDUC 330</td>
<td>Deaf History (SS)</td>
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<td>EXCEDUC 352</td>
<td>American Deaf Culture (SS)</td>
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<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (HU)</td>
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<td>Geography of Race in the United States (SS/CD)</td>
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<td>Historical Roots of Contemporary Issues: (SS)</td>
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<td>Topic: The Civil Rights Movement in Milwaukee (SS/CD)</td>
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<td>History of Race, Science, and Medicine in the United States (HU/CD) (if not selected in Area V)</td>
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<td>History of Women in American Society (HU)</td>
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<td>HIST/AIDS 262</td>
<td>North American Indian History to 1887 (SS/CD)</td>
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<td>North American Indian History Since 1887 (SS/CD)</td>
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<td>HIST/LATINO 267</td>
<td>The History of Latinos in the United States (HU/CD)</td>
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<td>HIST 269</td>
<td>Asian Americans in Historical Perspective (HU/CD)</td>
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<td>HIST 270</td>
<td>Topics in American History: Topic: Mixed Race Identity in American Culture (HU/CD)</td>
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<td>HIST 271</td>
<td>The 1960s in the United States: A Cultural History (HU)</td>
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<td>HIST 398</td>
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<td>HIST 436</td>
<td>Immigrant America Since 1880 (HU/CD)</td>
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<tr>
<td>HIST 445</td>
<td>African Americans from Slavery to Freedom (CD)</td>
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<td>HIST 446</td>
<td>African Americans Since the Civil War (CD)</td>
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<td>History of Wisconsin Indians (HU/CD)</td>
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<td>HMONG/ETHNIC 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life (SS/CD)</td>
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<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind:</td>
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**Topic: Beyond the Border: Making Mexican America**

- HIST 270: Topics in American History: Topic: Mixed Race Identity in American Culture (HU/CD)
- HIST 271: The 1960s in the United States: A Cultural History (HU)
- HIST 398: Honors Seminar: (American Mixed Race)
- HIST 436: Immigrant America Since 1880 (HU/CD)
- HIST 445: African Americans from Slavery to Freedom (CD)
- HIST 446: African Americans Since the Civil War (CD)
- HIST/AIDS 473: History of Wisconsin Indians (HU/CD)
- HIST/AIDS 474: Topics in North American History. (CD)
- HIST/AIDS 475: American Indian History, Law, and Government (CD)
- HMONG/ETHNIC 265: Hmong Americans: History, Culture, and Contemporary Life (SS/CD)
- HONORS 200: Honors Seminar: The Shaping of the Modern Mind:

**Topic: Americans in the Making: Immigrant Life in the Late 20th Century (HU/OWC-B)**

- HIST 270: Topics in American History: Topic: Mixed Race Identity in American Culture (HU/CD)
- HIST 271: The 1960s in the United States: A Cultural History (HU)
- HIST 398: Honors Seminar: (American Mixed Race)
- HIST 436: Immigrant America Since 1880 (HU/CD)
- HIST 445: African Americans from Slavery to Freedom (CD)
- HIST 446: African Americans Since the Civil War (CD)
- HIST/AIDS 473: History of Wisconsin Indians (HU/CD)
- HIST/AIDS 474: Topics in North American History. (CD)
- HIST/AIDS 475: American Indian History, Law, and Government (CD)
- HMONG/ETHNIC 265: Hmong Americans: History, Culture, and Contemporary Life (SS/CD)
- HONORS 200: Honors Seminar: The Shaping of the Modern Mind:

**LATINO/ENGLISH 279:** Introduction to U.S. Latino/a Literature: (HU/CD)

**LATINO/ENGLISH 374:** Survey of U.S. Latino/a Literature (CD)

**LATINO/ENGLISH 523:** Studies in U.S. Latino/a Literature: (CD)

**L&S NS 295:** Seminar in the Natural Sciences: (NS) (if not selected in Area V)

**Topic: Green Science and Urban Space**

- PSYCH 230: Social Psychology: Psychological Perspectives (SS)
- PSYCH 319: Gay and Lesbian Psychology (SS)
- PSYCH 320: Psychology of Women
- RELIGST 106: Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)

**SOC WRK 300:** Aged to Perfection: Introduction to the Study of Aging (OWCB/SS)

**SOC WRK 665:** Cultural Diversity and Social Work (SS/CD)

**SOCIOL 150:** Multicultural America (SS/CD) (if not selected above)

**SOCIOL 224:** Race and Ethnicity in the United States (SS/CD)

**SOCIOL 233:** Social Inequality in the United States (SS)

**SOCIOL 250:** Sex and Gender (SS)

**SOCIOL/AIDS 321:** Contemporary Issues of the American Indian (SS/CD)

**SOCIOL 323:** Perspectives on Latino Communities (SS/CD)

**SPANISH 371:** Introduction to Latino Literature in English (HU/CD)

**SPANISH 373:** Topics in Latino Literature in English: (HU/CD)

**THERREC 202:** Disability: Society and the Person (SS)

**URBPLAN 140:** Issues in Contemporary Urban Planning (SS)

**URBPLAN 350:** Social Justice, Urban Planning and the New Multicultural America (CD)

**URB STD 150:** Multicultural America (SS/CD) (if not selected above)

**WGS 150:** Multicultural America (SS/CD) (if not selected above)

**WGS 192:** First-Year Seminar: (HU)

**Topic: Gender in American Consumer Culture**

- PSYCH 230: Social Psychology: Psychological Perspectives (SS)
- PSYCH 319: Gay and Lesbian Psychology (SS)
- PSYCH 320: Psychology of Women
- RELIGST 106: Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)

**SOC WRK 300:** Aged to Perfection: Introduction to the Study of Aging (OWCB/SS)

**SOC WRK 665:** Cultural Diversity and Social Work (SS/CD)

**SOCIOL 150:** Multicultural America (SS/CD) (if not selected above)

**SOCIOL 224:** Race and Ethnicity in the United States (SS/CD)

**SOCIOL 233:** Social Inequality in the United States (SS)

**SOCIOL 250:** Sex and Gender (SS)

**SOCIOL/AIDS 321:** Contemporary Issues of the American Indian (SS/CD)

**SOCIOL 323:** Perspectives on Latino Communities (SS/CD)

**SPANISH 371:** Introduction to Latino Literature in English (HU/CD)

**SPANISH 373:** Topics in Latino Literature in English: (HU/CD)

**THERREC 202:** Disability: Society and the Person (SS)

**URBPLAN 140:** Issues in Contemporary Urban Planning (SS)

**URBPLAN 350:** Social Justice, Urban Planning and the New Multicultural America (CD)

**URB STD 150:** Multicultural America (SS/CD) (if not selected above)

**WGS 150:** Multicultural America (SS/CD) (if not selected above)

**WGS 192:** First-Year Seminar: (HU)

**Topic: Gender in American Consumer Culture**

- PSYCH 230: Social Psychology: Psychological Perspectives (SS)
- PSYCH 319: Gay and Lesbian Psychology (SS)
- PSYCH 320: Psychology of Women
- RELIGST 106: Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)

**SOC WRK 300:** Aged to Perfection: Introduction to the Study of Aging (OWCB/SS)

**SOC WRK 665:** Cultural Diversity and Social Work (SS/CD)

**SOCIOL 150:** Multicultural America (SS/CD) (if not selected above)

**SOCIOL 224:** Race and Ethnicity in the United States (SS/CD)

**SOCIOL 233:** Social Inequality in the United States (SS)

**SOCIOL 250:** Sex and Gender (SS)

**SOCIOL/AIDS 321:** Contemporary Issues of the American Indian (SS/CD)

**SOCIOL 323:** Perspectives on Latino Communities (SS/CD)

**SPANISH 371:** Introduction to Latino Literature in English (HU/CD)

**SPANISH 373:** Topics in Latino Literature in English: (HU/CD)

**THERREC 202:** Disability: Society and the Person (SS)

**URBPLAN 140:** Issues in Contemporary Urban Planning (SS)

**URBPLAN 350:** Social Justice, Urban Planning and the New Multicultural America (CD)

**URB STD 150:** Multicultural America (SS/CD) (if not selected above)

**WGS 150:** Multicultural America (SS/CD) (if not selected above)

**WGS 192:** First-Year Seminar: (HU)
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<td>Introduction to Women’s and Gender Studies: A Social Science Perspective (SS)</td>
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<td>WGS 201</td>
<td>Introduction to Women’s and Gender Studies: A Humanities Perspective (HU)</td>
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### Area III. Global Perspectives on Culture and Community

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<td>AFRIC 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area II)</td>
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<td>AFRIC 232</td>
<td>Survey of African Societies and Cultures (SS)</td>
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<td>AFRIC 235</td>
<td>African Americans and South Africa (HU)</td>
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<td>AFRIC 334</td>
<td>Survey of Black American and Black Brazilian Societies (SS)</td>
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<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society (SS)</td>
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<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies (SS)</td>
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<td>ANTHRO 250</td>
<td>Women’s Roles in Cross-Cultural Perspective (SS)</td>
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<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment (SS)</td>
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<td>ARABIC 111</td>
<td>Cultures and Civilizations of the Muslim Middle East (HU)</td>
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<td>ARTHIST 104</td>
<td>African, New World and Oceanic Art and Architecture (HU)</td>
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<td>ARTHIST 105</td>
<td>Asian Art and Architecture (HU)</td>
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<td>CELTIC 133</td>
<td>Celtic Crossings: Overview of the History and Cultures of the Celtic World (HU)</td>
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<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts (HU)</td>
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<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century: (HU)</td>
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<td>First-Year Seminar: (HU)</td>
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<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s (HU)</td>
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<td>Global Literature from the 17th Century to the Present: (HU)</td>
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<td>Literature and Society: (HU)</td>
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<td>COMPLIT 231</td>
<td>Literature and Religion: (HU)</td>
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**Topic:**
- Holocaust: Children and War
- Holocaust in Literature and Film
- Holocaust in Poland
- Nazis in Western Europe
- The Quran as Literature

**COMPLIT 232**
- Literature and Politics: (HU) 3

**Topic:**
- Contemporary Women Writers and the Ethics of Violence
- Gender and the Historical Novel
- The Representation of Revolution
- Women and War in Latin America and the Caribbean

**COMPLIT 233**
- Literature and Film: (HU) (Topic: The Literature and Film of Globalization) 3

**COMPLIT 309**
- Great Works of Modern Literature: (HU) (Topic: Cultural Identity and the Postcolonial Text) 3

**CRM JST 410**
- Comparative Criminal Justice (SS) 3

**ECON 193**
- First-Year Seminar: (SS) (Topic: Growth and Development of China, Japan, and Korea) 3

**ENGLISH 243**
- Introduction to Literature by Women: (HU) (Topic: Literature About Women of East and Southeast Asia) 3

**ENGLISH 278**
- Introduction to World Literatures Written in English: (HU) (Topic: Literature from the Middle East) 3

**ENGLISH 685**
- Honors Seminar: (HU) (Topic: African Fiction) 3

**FLL 216**
- Survey of Civilization: (HU) (Topic: Language, Culture, and Politeness) 3

**GEOG 110**
- The World: Peoples and Regions (SS) (if not selected in Area V) 3

**GEOG 115**
- Globalization and Economic Development (SS) 3

**GEOG 193**
- First-Year Seminar: (SS) (Topic: Exploring India – Societies, Cultures, and Environments) 3

**GEOG 213**
- Geography of Asia (SS) (if not selected in Area V) 3

**GEOG 231**
- Muslim Geographies: Identities and Politics (SS) 3

**GLOBAL 101**
- Introduction to Global Studies I: People and Politics (SS) 3

**GLOBAL 202**
- Introduction to Global Studies III: Globalization and Technology (SS) 3

**HIST 175**
- East Asian Civilization to 1600 (HU) 3

**HIST 176**
- East Asian Civilization Since 1600 (HU) 3

**HIST 180**
- Latin American Society and Culture (SS) 3

**HIST 192**
- First-Year Seminar: (HU) 3

**HIST 193**
- First-Year Seminar: (SS) (Topic: History and Globalization) 3

**HIST 200**
- Historical Roots of Contemporary Issues: (SS) 3
### Cultures and Communities, Undergraduate Certificate

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 210</td>
<td>The Twentieth Century: A Global History (SS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258 (HU)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries (HU)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 284</td>
<td>Buddhism Across Asia (HU)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War (SS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 379</td>
<td>Introduction to Jewish History (HU)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: (Topic: History, Memory, and Reconciliation in East Asia (HU))</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 247</td>
<td>Topics in Jewish Literature, Art, and Culture: (HU) (Topic: Anti-Semitism from Biblical Times to the Present)</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images (HU)</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust (HU)</td>
<td>3</td>
</tr>
<tr>
<td>LACS 101</td>
<td>Introduction to Latin American and Caribbean Studies (HU)</td>
<td>3</td>
</tr>
<tr>
<td>LACUSL/THEATRE 324</td>
<td>Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions (HU)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 106</td>
<td>Politics of the World’s Nations (SS)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 175</td>
<td>Introduction to International Relations (SS)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict (SS)</td>
<td>3</td>
</tr>
<tr>
<td>PORTUGS 192</td>
<td>First-Year Seminar: (HU)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Area IV. Art, Culture, and Community

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>American Art and Culture (A/CD) (LEC with CC content only)</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art &amp; Design Lecture Series (A)</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey (A)</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Multicultural America (A/CD) (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education (A/CD)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I (A/CD)</td>
<td>2-3</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (A/CD)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 320</td>
<td>Rituals and Culture (A)</td>
<td>2-3</td>
</tr>
<tr>
<td>DANCE 360</td>
<td>Movement and Learning (A)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions: (A)</td>
<td>2-3</td>
</tr>
</tbody>
</table>

#### Area V. Science, Culture, and Society

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture (CD; if not selected in Area II)</td>
<td>3</td>
</tr>
</tbody>
</table>
Digital Arts and Culture

The Digital Arts and Culture (DAC) BA is an interdisciplinary degree program, combining courses in the areas of arts, humanities, social sciences, and information studies. The program aims to empower learning communities by leading students to a variety of opportunities: to develop skills and understanding of new knowledge production and research methods; to operate with confidence as media practitioners and global communicators with a diverse range of media literacies; and to collaborate and contribute as creative problem solvers using digital media in a networked culture.

Students who complete the Digital Arts & Culture major will be able to:

- Analyze digital and electronic media systems, explaining what these platforms do and how they do it.
- Engage with complex digital issues: online, offline, via ubiquitous computing hardware and software.
- Organize information, both architecturally and visually, structuring software, websites, advertisements, social media, and more.
- Demonstrate hands-on, collaborative, and cross-disciplinary, media production with artists and designers.

Coursework is drawn from three schools/colleges at UWM: Peck School of the Arts, College of Letters and Science, and School of Information Studies, with an overarching interest in the study and practice of Arts, Information, and Media.

Five categories of courses define the themes of the major:

- **Core Culture**, introducing students to essential cultural and historical dimensions of Digital Art and network practices.
- **Media Systems**, providing an overview of media industries.
- **Digital Composition**, building on the foundations of the 100-level core culture courses, encompassing courses that set out competencies in composing with concepts and tools of digital media for students to achieve.
- **Understanding Digital Culture**, engaging at the upper levels to analyze more complex systems and issues.
- **Practicing the Digital Arts**, also engaging at the upper levels, as a means of gaining practical experience organizing and collaborating in media production processes.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete a Certificate in Digital Arts and Culture. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.
To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
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<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
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<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
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<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
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<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
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<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
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<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
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<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
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<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
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<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
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<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
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<tr>
<td></td>
<td>MATH 116 College Algebra</td>
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<td></td>
<td>Or equivalent course</td>
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<td></td>
<td><strong>Part B</strong></td>
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<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
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<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
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<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
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<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
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<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.
ATM SCI 500  Statistical Methods in Atmospheric Sciences
BIO SCI 465  Biostatistics
ECON 210  Economic Statistics
GEOG 247  Quantitative Analysis in Geography
HIST 595  The Quantitative Analysis of Historical Data
MTHSTAT 215  Elementary Statistical Analysis
PHILOS 211  Elementary Logic
POL SCI 390  Political Data Analysis
POL SCI 392  Survey Research
PSYCH 210  Psychological Statistics
SOCIOL 261  Introduction to Statistical Thinking in Sociology

**Note:** This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>of college work or equivalent in one</td>
<td></td>
</tr>
<tr>
<td></td>
<td>language other than English (including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Sign Language)</td>
<td></td>
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<tr>
<td></td>
<td>Successful completion of the 3rd semester</td>
<td></td>
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<tr>
<td></td>
<td>of college work or equivalent in one</td>
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<tr>
<td></td>
<td>language other than English (including</td>
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<tr>
<td></td>
<td>American Sign Language) PLUS the 2nd</td>
<td></td>
</tr>
<tr>
<td></td>
<td>semester of college work or equivalent in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>another language other than English</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(including American Sign Language)</td>
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</tbody>
</table>

### IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single</td>
<td></td>
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<tr>
<td></td>
<td>foreign language (not including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>literature-in-translation or American Sign</td>
<td></td>
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<tr>
<td></td>
<td>Language) at the 3rd semester level and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>above</td>
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</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>credits) with an international content</td>
<td></td>
</tr>
<tr>
<td></td>
<td>chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>two options above</td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Humanities Breadth designation; no more</td>
<td></td>
</tr>
<tr>
<td></td>
<td>than 6 credits from a single subject area.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Science Breadth designation; no</td>
<td></td>
</tr>
<tr>
<td></td>
<td>more than 6 credits from a single curricular area.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences Breadth designation,</td>
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<td></td>
<td>including at least one laboratory or field</td>
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<td></td>
<td>course; no more than 6 credits from a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>single curricular area.</td>
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</tr>
<tr>
<td></td>
<td><strong>Cultural Diversity</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with</td>
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</tr>
<tr>
<td></td>
<td>Cultural Diversity (CD) designation. **</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students should check their course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>selections carefully with the list of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>approved L&amp;S Breadth Courses (http://</td>
<td></td>
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<tr>
<td></td>
<td>catalog.uwm.edu/letters-science/breadth-</td>
<td></td>
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<tr>
<td></td>
<td>requirement-course-list/). Students are</td>
<td></td>
</tr>
<tr>
<td></td>
<td>advised to select at least 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>worth of courses in each of the Humanities,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Science, and Natural Sciences areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>that can satisfy both the campus-wide</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education Requirements and the L&amp;S</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Breadth requirement.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>**Students are advised to select a course</td>
<td></td>
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<tr>
<td></td>
<td>that satisfies the Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>requirement as well as a Humanities or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Science breadth/GER requirement.</td>
<td></td>
</tr>
</tbody>
</table>

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Digital Arts and Culture Degree Requirements

You are strongly advised to consult both the DAC advisor and your L&S advisor to ensure you stay on track towards a degree. A total of 36 credits is required for the major, of which at least 15 upper-level L&S credits must...
be completed in residence at UWM. No more than 21 credits from a single curricular area may count toward the submajor. Students must earn a 2.0 GPA on all UWM credits that count toward the major. In addition, the College requires that students earn a minimum 2.0 GPA on all transfer work, counting towards the major.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td><strong>Core Culture Courses</strong></td>
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<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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<tr>
<td>JAMS 113</td>
<td>Internet Culture</td>
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<tr>
<td><strong>Media Systems Courses</strong></td>
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<td>ARTHIST/ENGLISH/ FILMSTD 111</td>
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<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
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<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
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<td><strong>Digital Composition Courses</strong></td>
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<td>Select two of the following:</td>
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<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
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<td>ART 221</td>
<td>Introduction to Design</td>
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<td>ENGLISH 202</td>
<td>Writing in the Humanities</td>
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<td>ENGLISH 214</td>
<td>Writing in the Professions:</td>
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<tr>
<td>INFOST 240</td>
<td>Web Design I</td>
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<td>JAMS 201</td>
<td>Media Writing</td>
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<tr>
<td>JAMS 231</td>
<td>Publication Design</td>
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<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
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<td><strong>Understanding Digital Culture Courses</strong></td>
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<td>ANTHRO 302</td>
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<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
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<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society:</td>
<td></td>
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<tr>
<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
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<td><strong>Practicing the Digital Arts Courses</strong></td>
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<td>ART 312</td>
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<td>ART 324</td>
<td>Web Design</td>
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<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
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<tr>
<td>INFOST 350</td>
<td>Introduction to Application Development</td>
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<tr>
<td>INFOST 430</td>
<td>Multimedia Application Development</td>
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<td>JAMS 336</td>
<td>Media Graphics</td>
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<tr>
<td><strong>Capstone Seminar</strong></td>
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<tr>
<td>DAC 661</td>
<td>Digital Engagement Seminar</td>
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<tr>
<td><strong>Electives</strong></td>
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</tr>
<tr>
<td>Select at least 6 credits from the Understanding Digital Culture Expanded Electives and 3 credits from the Practicing Digital Arts Expanded Electives. The remaining 3 credits can come from either group. At least one course from each group should be numbered 300 or above.</td>
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<tr>
<td><strong>Understanding Digital Culture Expanded Electives</strong></td>
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</table>
Practicing the Digital Arts Expanded Electives

ART 212  Introduction to Digital Studio: A/V Strategies (if not selected above)
ART 218  2D Design Strategies
ART 221  Introduction to Design (if not selected above)
ART 312  Intermediate Digital Studio
ART 316  Interactive and Multimedia Art
ART 318  Electronics and Sculpture
ART 324  Web Design (if not selected above)
ART 325  Web Design II
ART 327  Digital Media Workshop:
ART 393  Digital Printmaking
ART 424  Topics in Web, Interaction and Screen Design:
ART 426  Motion Graphics
DAC 289  Internship in Digital Arts and Culture, Lower Division
DAC 489  Internship in Digital Arts and Culture, Upper Division
ENGLISH 202  Writing in the Humanities (if not selected above)
ENGLISH 214  Writing in the Professions: (if not selected above)
ENGLISH 328  Forms of Experimental Literature:
ENGLISH 431  Topics in Advanced Communications:
ENGLISH 435  Rhetoric and Professional Writing
ENGLISH 436  Technical Documentation
ENGLISH 437  Project Management for Professional Writers
ENGLISH 439  Information Design (if not selected above)
FILM 201  Introduction to Experimental Media Arts
FILM 222  Introduction to Digital Filmmaking
FILM 255  Introduction to Digital Arts (if not selected above)
FILM 380  Media Arts Module:
FINEART 313  Programming for Artists I
GEOG 215  Introduction to Geographic Information Science
GEOG 525  Geographic Information Science
INFOST 240  Web Design I (if not selected above)
INFOST 340  Introduction to Systems Analysis
INFOST 430  Multimedia Application Development (if not selected above)
JAMS 260  Contemporary Non-Fiction Media
JAMS 262  Principles of Media Studies
JAMS 450  Race and Ethnicity in the Media
JAMS 460  History of Mass Media
JAMS 461  Media Ethics
JAMS 559  Freedom of Expression in the Digital Age
JAMS 562  Media Studies and Culture
INFOST 491  Advanced Topics in Information Science & Technology: (Flash)
INFOST 685  Electronic Publishing and Web Design
JAMS 201  Media Writing (if not selected above)
JAMS 204  News Writing and Technology
JAMS 231  Publication Design (if not selected above)
JAMS 232  Photojournalism
JAMS 332  Introduction to Digital Documentary
JAMS 336  Media Graphics (if not selected above)
JAMS 399  On-Campus Internship (DAC placement)
MUSIC 327  Analog and Digital Synthesis I
MUSIC 328  Digital Synthesis and Systems II
MUSIC 680  Special Studies in Music: (Interactivity and Improvisation)
THEATRE 357  Digital Audio Workstations for Stage and Studio
THEATRE 437  Sound Design and Digital Editing

Total Credits 36

You are strongly advised to consult both the DAC advisor and your L&S advisor to ensure you stay on track towards a degree.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Senior Lecturer Marc Tasman, mtasman@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/digital-arts-culture/undergraduate/

Digital Arts and Culture, Undergraduate Certificate

The Digital Arts and Culture (DAC) undergraduate certificate is an interdisciplinary degree program, combining courses in the areas of arts, humanities, social sciences, and information studies.

The program aims to empower learning communities by leading students to a variety of opportunities: to develop skills and understanding of new knowledge production and research methods; to operate with confidence as media practitioners and global communicators with a diverse range of media literacies; and to collaborate and contribute as creative problem solvers using digital media in a networked culture.

Coursework is drawn from three schools/colleges at UWM: Peck School of the Arts, College of Letters and Science, and School of Information Studies, with an overarching interest in the study and practice of Arts, Information, and Media.

Five categories of courses define the themes of the program:

- **Core Culture**, introducing students to essential cultural and historical dimensions of Digital Art and network practices.
- **Media Systems**, providing an overview of media industries.
- **Digital Composition**, building on the foundations of the 100-level core culture courses, encompassing courses that set out competencies in composing with concepts and tools of digital media for students to achieve.
- **Understanding Digital Culture**, engaging at the upper levels to analyze more complex systems and issues.
- **Practicing the Digital Arts**, also engaging at the upper levels, as a means of gaining practical experience organizing and collaborating in media production processes.

Eligibility
The certificate program is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

Requirements
To obtain the certificate, students must complete a minimum of 24 credits with a GPA of 2.0 or above; at least 9 of these credits must be at the 300 level or above. At least 12 credits must be in courses from the College of Letters and Science, and at least 6 of the L&S credits must be at the 300 level or above. No more than 15 credits from a single curricular area may apply toward satisfaction of the certificate requirements. The following requirements must be met. All courses are 3 credits unless otherwise noted.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>Select one of the following:</td>
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<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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<tr>
<td>JAMS 113</td>
<td>Internet Culture</td>
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<tr>
<td><strong>Media Systems Courses</strong></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ARTHIST/ENGLISH/FILMSTD 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
<td>3</td>
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<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
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<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
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<td><strong>Understanding Digital Culture Courses</strong></td>
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<td>Select one of the following:</td>
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<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture</td>
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<tr>
<td>Code</td>
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<td>Credits</td>
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<td>COMMUN 310</td>
<td>Communication in Organizations</td>
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<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
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<td>ENGLISH 210</td>
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<td>ENGLISH 380</td>
<td>Media and Society</td>
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<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
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<td><strong>Practicing the Digital Arts Courses</strong></td>
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<tr>
<td>ART 312</td>
<td>Intermediate Digital Studio</td>
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<tr>
<td>ART 324</td>
<td>Web Design</td>
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<td>ENGLISH 439</td>
<td>Information Design</td>
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<tr>
<td>INFOST 350</td>
<td>Introduction to Application Development</td>
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<td>INFOST 430</td>
<td>Multimedia Application Development</td>
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<tr>
<td>JAMS 336</td>
<td>Media Graphics</td>
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<td><strong>Total Credits</strong></td>
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**Electives**

Select 12 additional credits from the lists below, including at least 6 credits from Understanding Digital Culture and 6 credits from Practicing the Digital Arts. At least one of these courses should be numbered 300 or above.

**Understanding Digital Culture Electives**

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<tr>
<th>Code</th>
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<tr>
<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture (if not selected above)</td>
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<td>ANTHRO 340</td>
<td>Cultures of Online Games and Virtual Worlds</td>
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<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
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<td>ARTHIST/ENGLISH/FILMSTD 111</td>
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<td>ARTHIST 472</td>
<td>History and Theory of New Media Art</td>
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<td>COMMUN 310</td>
<td>Communication in Organizations</td>
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<td>COMMUN 313</td>
<td>Human Communication and Technology (if not selected above)</td>
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<td>COMMUN 413</td>
<td>Rhetoric and the Internet</td>
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<td>COMMUN 440</td>
<td>Contemporary Problems in Freedom of Speech</td>
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<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts</td>
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<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century</td>
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<td>Introduction to Television Studies</td>
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<td>ENGLISH 294</td>
<td>Game Culture</td>
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<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Cinema and Digital Culture or Science Fiction - Utopia and Dystopia)</td>
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<td>ENGLISH 329</td>
<td>Film and Literature</td>
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<td>ENGLISH 380</td>
<td>Media and Society: (if specific title not selected above)</td>
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<td>Cinema and Genre:</td>
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<td>Theories of Mass Culture:</td>
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<td>Introduction to Film Studies</td>
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<td>Introduction to Television Studies</td>
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<td>Film and Literature</td>
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<td>Cinema and Genre:</td>
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<td>FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
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<td>GLOBAL 202</td>
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<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
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<td>Human Factors in Information Seeking and Use</td>
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<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services</td>
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<td>INFOST 674</td>
<td>The Search Engine Society</td>
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<td>INFOST 675</td>
<td>Information Technology and Organizations</td>
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<td>JAMS 111</td>
<td>Gender and the Media</td>
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<td>Contemporary Non-Fiction Media</td>
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<td>JAMS 262</td>
<td>Principles of Media Studies</td>
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<td>Race and Ethnicity in the Media</td>
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<td>Media Ethics</td>
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<td>JAMS 559</td>
<td>Freedom of Expression in the Digital Age</td>
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<td>JAMS 562</td>
<td>Media Studies and Culture</td>
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<td>JAMS 569</td>
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**Practicing the Digital Arts**

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<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice (if not selected above)</td>
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</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
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</tr>
</tbody>
</table>

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**Total Credits: 12**
Economics

Economics is the study of choice. In a world with scarce resources (such as raw materials, labor, time), economists study how people choose to use those resources to make people as well-off as possible. The economics curriculum stresses both theory and application of important economic issues in society, such as unemployment, inflation, exchange rates, labor markets, economic development, environmental policies, and international trade and finance.

The Department of Economics in the College of Letters and Science offers a wide variety of courses in economic theory, policy, and statistics.

Related Programs

A related special major is international studies (p. 1000); a related degree program is the BA in Global Studies (p. 966).

Programs

- Applied Econometrics and Data Analysis, Graduate Certificate (p. 843)
- Economics, BA (p. 844)
- Economics, MA (p. 848)
- Economics, Minor (p. 850)
- Economics, PhD (p. 850)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Scott Adams</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
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</tr>
<tr>
<td>Swarnjit S. Arora</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>State University of New York at Buffalo</td>
<td>✔</td>
<td>✔</td>
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</tbody>
</table>
Applied Econometrics and Data Analysis, Graduate Certificate

The certificate program in applied econometrics and data analysis is designed to prepare students for the job market that emphasizes quantitative data skills. Job applicants with econometrics skills are in high demand in many occupations in business and government. In the business world, a few examples of areas in which those with econometrics training work are policy analysis, financial analysis, forecasting, market research, logistics, and quality control. Econometrics training is also useful for government jobs. Policymakers need hard evidence on which to base their decisions; data must be collected, analyzed, and presented in a convincing way. State and Federal Government departments, such as the Federal Reserve and the Bureau of Labor Statistics, regularly seek graduates with econometric and data skills.

Admission Requirements

Admission

Adequate preparation at the undergraduate level equivalent to two semesters of course work in intermediate microeconomic theory (ECON 301 or equivalent) and intermediate macro-economic theory (ECON 302 or equivalent), one semester of statistics, and one semester of calculus.

Application

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

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• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).

• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

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• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.
Certificate program time limits shall be established as follows:

**Articulation with Degree Programs**

Taken at UWM is required.

A minimum cumulative 3.00 grade point average in certificate courses.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Additional Requirements**

**Transfer Credit**

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Graduate Committee of the Department of Economics. A maximum of three (3) credits may be transferred to count toward the Applied Econometrics and Data Analysis Department of Economics.

A maximum of three (3) credits may be accepted in partial fulfillment of the program requirements, subject to review by the Graduate Committee of the certificate program.

**Credits earned at other institutions** equivalent to courses in the certificate program's 16-credit requirement.

**Total Credits**

1 A maximum of 3 credits in 999 can apply to the certificate.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Economics, BA**

Economics is the study of choice and decision-making in the face of scarce resources, both at the individual and group levels. Economists examine tradeoffs between different actions and behaviors; analyze different scenarios such as a change in prices, cultural values, or law; and seek to explain and predict human behavior.

Students often ask what the difference is between Economics and Finance. The areas are interrelated and inform and influence each other. Professionally, there is also crossover, with economists working in financial markets and financial experts working on economic policy. In broad terms, economics focuses on concepts related to overall markets, government policy, and decision-making influences. Finance tends to focus on individual businesses and individual people, including the study of assets and liabilities, and financial statements and reporting.

At UWM, students of economics have access to faculty members who are internationally recognized experts in their field. Focus areas for students to choose from include economic theory, quantitative methods including econometrics, public policy, law and the economy, labor economics, and international economic relations.

Many are surprised to learn about the diverse career paths a major in Economics can lead to. Individuals with strong analytical ability and skill working with data and statistics are in high demand in financial management, accounting, human resources, data management, law, marketing, insurance, and more.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

**Part A**

Achieve a grade of C or better in the following course:

**Part B**

- 19 or more credits/Four years from initial enrollment in the certificate sequence.
Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A

Achieve a grade of C or better in one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Select 6 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

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</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

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Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.
Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

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<tr>
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</table>

Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
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<tr>
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<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas

Complete 9 credits in combination of the two options above

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/) designation, L&S students must complete the Breadth requirement.

<table>
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<td></td>
<td></td>
<td>3</td>
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</table>

Arts
Select 3 credits

Humanities
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

Social Sciences
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

Natural Sciences

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Economics Major Requirements
To major in economics, students must earn grades of at least C in ECON 103 and ECON 104, attain at least a 2.0 GPA on all credits in the major attempted at UWM, and attain at least a 2.0 GPA on all major credits attempted when any transfer work is included along with the UWM work. The major in economics requires a minimum of 30 credits plus a research requirement including the following:

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</tbody>
</table>

Required 1
ECON 103 Principles of Microeconomics
ECON 104 Principles of Macroeconomics
ECON 210 Economic Statistics 2
ECON 301 Intermediate Microeconomics
ECON 302 Intermediate Macroeconomics

Electives 1
Select at least one course at the 400 level or above (excluding ECON 415)
Select 12 additional credits in ECON, 3 of which must be in an approved research requirement course (see below).

Total Credits 30

1 At least 15 credits must be in upper-division (300 level and above) economics courses taken in residence at UWM
2 BUS ADM 210 or MTHSTAT 215 may be substituted for ECON 210 and will count in the major GPA.

Research Requirement

All majors in economics must complete an independent research experience by selecting, from the list below, a 400- or 500-level course in which they will write and present a research paper. The contents of the paper and the presentation of the results will be arranged with the faculty member teaching the course.

Eligible courses include:

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<tbody>
<tr>
<td>ECON 404</td>
<td>Economic Applications of Game Theory</td>
<td></td>
</tr>
<tr>
<td>ECON 411</td>
<td>Economic Forecasting Methods</td>
<td></td>
</tr>
<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td></td>
</tr>
<tr>
<td>ECON 426</td>
<td>Public Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 432</td>
<td>Industrial Organization</td>
<td></td>
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<tr>
<td>ECON 447</td>
<td>Labor Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 448</td>
<td>Economics of Human Resources</td>
<td></td>
</tr>
<tr>
<td>ECON 454</td>
<td>International Trade</td>
<td></td>
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<tr>
<td>ECON 455</td>
<td>International Finance</td>
<td></td>
</tr>
<tr>
<td>ECON 506</td>
<td>Mathematical Economics I</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td>Introduction to Econometrics</td>
<td></td>
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<tr>
<td>ECON 525</td>
<td>The Economics of Water</td>
<td></td>
</tr>
<tr>
<td>ECON 699</td>
<td>Independent Work</td>
<td></td>
</tr>
</tbody>
</table>

Optional Concentrations

The Department offers three optional concentrations within the major. While completing the major requirements outlined above, students may elect to complete one of the following sets of requirements:

International Economic Relations

Choose three of the following courses:

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<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td></td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td></td>
</tr>
<tr>
<td>ECON 454</td>
<td>International Trade</td>
<td></td>
</tr>
<tr>
<td>ECON 455</td>
<td>International Finance</td>
<td></td>
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</tbody>
</table>

Quantitative Methods

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</tr>
</thead>
<tbody>
<tr>
<td>ECON 310</td>
<td>Research Methods for Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 411</td>
<td>Economic Forecasting Methods</td>
<td></td>
</tr>
<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Preparation

Choose two courses each from the quantitative methods module and the economic theory module as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td></td>
</tr>
<tr>
<td>ECON 506</td>
<td>Mathematical Economics I</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
<tr>
<td>ECON 606</td>
<td>Mathematical Economics II</td>
<td></td>
</tr>
</tbody>
</table>

Additional Economics Modules

For courses that meet the requirements of the following modules:

- General Economics;
- Economic Theory;
- The Economics of Public Policy;
- Strategy, Law, and the Economy; and
- Labor Economics

Please see below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100</td>
<td>Introductory Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 110</td>
<td>Economics of Personal Finance</td>
<td></td>
</tr>
<tr>
<td>ECON 193</td>
<td>First-Year Seminar</td>
<td></td>
</tr>
<tr>
<td>ECON 199</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>ECON 248</td>
<td>Economics of Discrimination</td>
<td></td>
</tr>
<tr>
<td>ECON 258</td>
<td>Selected Topics in Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 289</td>
<td>Internship in Economics, Lower Division</td>
<td></td>
</tr>
<tr>
<td>ECON 297</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ECON 299</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
<tr>
<td>ECON 381</td>
<td>Honors Seminar.</td>
<td></td>
</tr>
<tr>
<td>ECON 458</td>
<td>Selected Topics in Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 489</td>
<td>Internship in Economics, Upper Division</td>
<td></td>
</tr>
<tr>
<td>ECON 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ECON 499</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
<tr>
<td>ECON 699</td>
<td>Independent Work</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 404</td>
<td>Economic Applications of Game Theory</td>
<td></td>
</tr>
<tr>
<td>ECON 506</td>
<td>Mathematical Economics I</td>
<td></td>
</tr>
<tr>
<td>ECON 606</td>
<td>Mathematical Economics II</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 325</td>
<td>Money and Banking</td>
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</tr>
<tr>
<td>ECON 328</td>
<td>Environmental Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 426</td>
<td>Public Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 450</td>
<td>Health Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 525</td>
<td>The Economics of Water</td>
<td></td>
</tr>
</tbody>
</table>

Strategy, Law, and the Economy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 231</td>
<td>Analysis of American Industries</td>
<td></td>
</tr>
</tbody>
</table>
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Accelerated Program Option

This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Honors in the Major

Departmental honors are awarded upon graduation to students who achieve a 3.000 GPA on all UWM graded credits attempted, a 3.500 GPA on all credits that count toward the major, and a 3.500 GPA on all credits in advanced-level (numbered 300 and above) courses that count toward the major.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Rebecca Neumann, rneumann@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/economics/undergraduate/

Economics, MA

The Department of Economics offers graduate programs of study designed to prepare students for careers in education and for careers in administrative and research positions in government, industry and labor. The programs are built upon a solid core of training in economic theory and in quantitative analysis, with area concentrations in econometrics, economic growth and development, industrial organization, international economics, labor economics and human resources, mathematical economics, monetary theory and policy, and urban and regional economics.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in economics and one semester of calculus.
   Alternatively, adequate preparation at the undergraduate level

<table>
<thead>
<tr>
<th>ECON 333</th>
<th>Economics and Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 335</td>
<td>Economics of Antitrust Laws</td>
</tr>
<tr>
<td>ECON 432</td>
<td>Industrial Organization</td>
</tr>
<tr>
<td><strong>Labor Economics</strong></td>
<td></td>
</tr>
<tr>
<td>ECON 415</td>
<td>Economics of Employment and Labor Relations</td>
</tr>
<tr>
<td>ECON 447</td>
<td>Labor Economics</td>
</tr>
<tr>
<td>ECON 448</td>
<td>Economics of Human Resources</td>
</tr>
</tbody>
</table>
equivalent to two semesters of coursework in intermediate economic theory, one semester of statistics, and one semester of calculus.

2. Submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) General Test or equivalent quantitative courses is recommended. Test of English as a Foreign Language exam is required for applicants whose native language is not English.

3. Two letters of recommendation from persons familiar with applicant’s scholastic achievement and potential.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. Deficiencies are to be made up through the following:

- in economic theory through ECON 301 and ECON 302;
- in statistics through ECON 210; and
- in calculus through MATH 211.

Credits and Courses

**Option A: Thesis Option**
Minimum degree requirement is 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td>ECON 990 Graduate Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Required</td>
<td>ECON 701 Economic Theory: Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ECON 702 Economic Theory: Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ECON 703 Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>Additional Requirements</td>
<td>ECON 506 Mathematical Economics I &amp; ECON 606 Mathematical Economics II</td>
<td>6</td>
</tr>
<tr>
<td>Select 6 additional credits of graduate work</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1. The student must select one area of concentration offered by the Department and must take at least two semesters in this concentration in courses numbered 700 or above (except ECON 990, ECON 991 and ECON 999).

**Latin American Concentration**
A concentration on Latin America is available. A student with previous interest and commitment in Latin American studies, who is able to demonstrate—through examination—good reading ability and fair conversational ability in Spanish or Portuguese, is permitted to select this concentration under Option A. Requirements for this concentration are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td>ECON 990 Graduate Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**Required**

- ECON 774 Economic Development - Theory 3
- ECON 775 Economic Development - Policy 3

**Electives**

- Select 3 credits in Interdisciplinary Seminar on Latin America 3
- Select a graduate course in Latin America in some field other than economics 3
- Select 9 additional credits of graduate work 9

**Total Credits**

27

**Option B: Non-Thesis Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>ECON 701 Economic Theory: Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ECON 702 Economic Theory: Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ECON 703 Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>Additional Requirements</td>
<td>ECON 506 Mathematical Economics I &amp; ECON 606 Mathematical Economics II</td>
<td>6</td>
</tr>
<tr>
<td>Select 6 additional credits of graduate work</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1. The student must take at least two courses in this concentration in courses numbered 700 or above.

2. Except ECON 734, ECON 990, ECON 991, and ECON 999.

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. In Economics the newly admitted master’s student is advised by the Graduate Study advisor.

**Option A: Thesis Option**
**Thesis**
An acceptable thesis must be written on the student’s area of concentration.

**Comprehensive Examination**
The student must pass a final oral examination in defense of the thesis.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Option B: Non-Thesis Option**
**Thesis**
No formal thesis is required. The student must submit a master’s paper instead of a thesis.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.
Accelerated Program Option
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Economics, Minor
Economics is the study of choice and decision-making in the face of scarce resources, both at the individual and group levels. Economists examine tradeoffs between different actions and behaviors; analyze different scenarios such as a change in prices, cultural values, or law; and seek to explain and predict human behavior.

Students often ask what the difference is between Economics and Finance. The areas are interrelated and inform and influence each other. Professionally, there is also a crossover, with economists working in financial markets and financial experts working on economic policy. In broad terms, economics focuses on concepts related to overall markets, government policy, and decision-making influences. Finance tends to focus on individual businesses and individual people, including the study of assets and liabilities, and financial statements and reporting.

At UWM, students of economics have access to faculty members who are internationally recognized experts in their field. Focus areas for students to choose from include economic theory, quantitative methods including econometrics, public policy, law and the economy, labor economics, and international economic relations.

Requirements
The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM, and at least a 2.0 GPA on all minor credits attempted when any transfer work is included along with the UWM work. The minor in economics requires a minimum of 18 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in upper-division (300 level or above) economics courses taken in residence at UWM</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1 BUS ADM 210 or MTHSTAT 215 may be substituted for ECON 210 and will count in the minor GPA.

Contact Information
Current Students contact Associate Professor Rebecca Neumann, rnuemann@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/economics/undergraduate/

Economics, PhD
The Department of Economics offers graduate programs of study designed to prepare students for careers in education and for careers in administrative and research positions in government, industry and labor. The programs are built upon a solid core of training in economic theory and in quantitative analysis, with area concentrations in econometrics, economic growth and development, industrial organization, international economics, labor economics and human resources, mathematical economics, monetary theory and policy, and urban and regional economics.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program. A master’s degree is not prerequisite for admission to the PhD program in economics.

- An undergraduate major in economics with a grade point average (both overall and in economics) of 3.0 (4.0 scale) and one semester of calculus or adequate preparation at the undergraduate level equivalent to two semesters of coursework in intermediate economic theory, one semester of statistics, and one semester of calculus.
- An applicant having a master’s degree in economics or graduate coursework in economic theory must have a graduate grade point average of at least 3.33 (4.0 scale).
- Submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) General Test and Subject Test or equivalent quantitative courses is recommended. Test of English as a Foreign Language exam is required for applicants whose native language is not English.
- Two letters of recommendation from persons familiar with applicant’s scholastic achievement and potential.

Reapplication
A student who is in the master’s program must formally reapply for admission to Graduate School before continuing toward the PhD. To receive doctoral student status, a student must complete the master’s degree or obtain a waiver of this requirement from the admissions committee, the graduate study advisor, and the Department Chair. The waiver must be obtained before the student completes 27 credits in the MA program.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM. Of the total credits required, a minimum of 42 must be taken in the field of economics.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 801</td>
<td>Advanced Microeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 802</td>
<td>Advanced Macroeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 803</td>
<td>Advanced Microeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 804</td>
<td>Advanced Macroeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits in quantitative theory</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 15 credits in two areas of concentration</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of research skills as detailed below</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>9-12</td>
<td></td>
</tr>
</tbody>
</table>
The schedule specifying the time at which these examinations are taken is as follows:

1. A doctoral student with an MA in Economics from UWM must attempt both theory prelims at the conclusion of 2 semesters or 12 credits (whichever happens last) and must pass both theory prelims prior to the start of the 5th semester or at the conclusion of 24 credits (whichever happens last).

2. A doctoral student with an MA in Economics from another institution must attempt both theory prelims at the conclusion of 3 semesters or 24 credits (whichever happens last) and must pass both theory prelims prior to the beginning of the 6th semester or at the conclusion of 36 credits (whichever happens last).

3. A doctoral student without an MA in Economics must attempt both theory prelims at the conclusion of 5 semesters or 36 credits (whichever happens last) and must pass both exams prior to the beginning of the 8th semester or at the conclusion of 48 credits (whichever happens last).

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. In Economics, the newly admitted PhD student is advised by the Graduate Study advisor.

**Research Skill**
Research skill requirements are individually assigned by the graduate study advisor. Research skill requirement is fulfilled through courses in computer science, mathematics, statistics, mathematical economics (700 level or above), or econometrics (700 level or above).

**Residence**
The student must meet minimum Graduate School residence requirements. The PhD student meets the continuous portion of the residence credit requirement by completing 8 to 12 credits in each of two consecutive semesters, including summer sessions. Residence credit is not earned at the master’s level or prior to award of the master’s degree.

**Doctoral Preliminary Examination**
The student must pass doctoral preliminary examinations for formal admission to candidacy for the degree. The examinations are given in sections covering economic theory and the student’s two areas of concentration. Students must take the sections in economic theory first.

Students may attempt any prelim exam twice. Any student failing a prelim exam twice may appeal to the Graduate Faculty for permission to take the exam for a third time if:

1. The student’s request is accompanied by letters of support from at least two members of the faculty and where one of the faculty is a member of the prelim committee awarding the failing grade, and
2. The student is still able to satisfy the time limits outlined below. (Note: These conditions must be met before an appeal can be considered by the Graduate Faculty. Satisfaction of these conditions in no way obligates the Graduate Faculty to grant any appeal.)

Students may not take the field exams until they have passed both theory exams. A section is also included covering the minor if there is one; this section is administered by the department concerned.

The schedule specifying the time at which these examinations are taken is as follows:

1. A doctoral student with an MA in Economics from UWM must attempt both theory prelims at the conclusion of 2 semesters or 12 credits (whichever happens last) and must pass both theory prelims prior to the start of the 5th semester or at the conclusion of 24 credits (whichever happens last).

2. A doctoral student with an MA in Economics from another institution must attempt both theory prelims at the conclusion of 3 semesters or 24 credits (whichever happens last) and must pass both theory prelims prior to the beginning of the 6th semester or at the conclusion of 36 credits (whichever happens last).

3. A doctoral student without an MA in Economics must attempt both theory prelims at the conclusion of 5 semesters or 36 credits (whichever happens last) and must pass both exams prior to the beginning of the 8th semester or at the conclusion of 48 credits (whichever happens last).

**Dissertation**
The candidate must write a dissertation which demonstrates ability to formulate a research topic and pursue independent and original investigation.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

**English**

English studies today offers a wider range of classes, topics, and projects than ever before. You can still explore the classic works of literature and the great authors, to be sure. But now our curriculum also includes film studies and media, rhetoric and professional writing, the digital humanities, critical and cultural theory, and creative writing workshops. Students can focus their studies in these areas and work with our advisors to plan a curriculum that meets their personal and career goals best.

English has gone global as well. Literature in English now comes from all over the world. Many of our courses feature the postcolonial fiction, drama, poetry, and prose from Africa, Asia, the Caribbean and the Americas. Here in the United States the study of literature includes Native American, African American, Latina/o, and Asian American works that introduce students to the rich cultural diversity of contemporary society.

Courses offered in the English curricular area of the Department of English are concerned primarily with the language and literature of English-speaking peoples. They are designed to develop skills in reading and writing and to offer students a variety of approaches to literature, language, and rhetoric. Further, the department seeks to encourage in each student a questioning approach to canon formation and aesthetic criteria, especially through the texts of previously marginalized minority and women writers, in order to gain insight into cultural diversity.

**Programs**

- English, BA (p. 853)
- English, MA (p. 863)
- English, MA/Library and Information Science, MLIS (p. 865)
- English, Minor (p. 868)
- English, PhD (p. 868)
- English, Writing, Editing, and Publishing Minor (p. 871)
<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gerald J. Alred</td>
<td>Professor</td>
<td>MA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sukanya Banerjee</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Riverside</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Xavier Baron</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
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<tr>
<td>Kimberly Blaeser</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Notre Dame</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gilberto Blasini</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Los Angeles</td>
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<tr>
<td>Rachel Bloom-Pojar</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
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<td>Mary Louise Buley-Meissner</td>
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<td>PhD</td>
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<td>Marcus P. Bullock</td>
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<td>MFA</td>
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<td>David P. Clark</td>
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<td>Brenda Cárdenas</td>
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<td>Rebecca Dunham</td>
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<td>J. Denny Fischer</td>
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<tr>
<td>Jane A. Gallop</td>
<td>Distinguished Professor</td>
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<td>Cornell University</td>
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<td>Alice Gillam</td>
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<td>John A. Goulet</td>
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<td>Sandra Grayson</td>
<td>Professor</td>
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<tr>
<td>Richard Grusin</td>
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<td>PhD</td>
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<tr>
<td>J. Lane Hall</td>
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<td>Kristie Hamilton</td>
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<td>Gregory S. Jay</td>
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<td>William Keith</td>
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<td>Mauricio Kilwein Guevara</td>
<td>Professor</td>
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<td>James M. Kuist</td>
<td>Professor</td>
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<tr>
<td>Valerie Laken</td>
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<td>MFA</td>
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<tr>
<td>Josepha Lanter</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Leiden, the Netherlands</td>
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<tr>
<td>Dennis Lynch</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
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<td>Andrew Martin</td>
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<td>PhD</td>
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<tr>
<td>Patricia Mayes</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Santa Barbara</td>
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<tr>
<td>Margaret Mika</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Stuart Moulthrop</td>
<td>Professor</td>
<td>PhD</td>
<td>Yale University</td>
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<tr>
<td>Jane B. Nardin</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Mark Netzloff</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>University of Delaware</td>
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<tr>
<td>Margaret Noodin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Tasha Oren</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<td>Jason Puskar</td>
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<td>PhD</td>
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<tr>
<td>Peter Sands</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>State University of New York-Binghamton</td>
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</tbody>
</table>
English, BA

Majoring in English provides students with a wealth of intellectual and practical learning, a foundation to future success. In today's high-technology, interconnected world, the ability to read carefully, think imaginatively, understand others, and communicate across all types of platforms and formats is essential.

Students in the English major at UWM get to choose a track and focus their studies on an area of particular interest:

- Literature and Cultural Theory - where the reading and analysis of literature is emphasized
- Rhetoric and Writing - a broad field that includes writing for different genres
- Creative Writing - ideal for students who love fiction and poetry
- Professional and Technical Writing - with an emphasis on business documentation
- Media, Cinema, and Digital Studies - includes the many forms of communicating through media such as film, tv, games, and the web

In small classes, our students learn to understand the power and possibilities of the English language across the centuries and around the world. Students learn to think critically, write persuasively, argue logically, delve deeply into history, and explore their own creativity. Students are challenged to examine their own assumptions, sharpen their writing, and learn how to read and understand even the most difficult works, from fiction to philosophy.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</tbody>
</table>
College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to ENGLISH 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing requirement. One year of high school language equates to one semester of college work.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

   Code | Title                                                  | Credits |
   ---- | -------------------------------------------------------|---------|
   3 or more credits in any 200-level or above Math course |         |
   AFRIC 220 | Introduction to Statistics in African and African Diaspora Studies | |
   ANTHRO 568 | Introduction to Anthropological Statistics            |         |
   ATM SCI 500 | Statistical Methods in Atmospheric Sciences            |         |
   BIO SCI 465 | Biostatistics                                         |         |
   ECON 210 | Economic Statistics                                    |         |
   GEOG 247 | Quantitative Analysis in Geography                     |         |
   HIST 595 | The Quantitative Analysis of Historical Data           |         |
   MTHSTAT 215 | Elementary Statistical Analysis                        |         |
   PHILOS 211 | Elementary Logic                                       |         |
   POL SCI 390 | Political Data Analysis                               |         |
   POL SCI 392 | Survey Research                                       |         |
   PSYCH 210 | Psychological Statistics                               |         |
   SOCIOL 261 | Introduction to Statistical Thinking in Sociology     |         |

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

   Code | Title                                              | Credits |
   ---- | ----------------------------------------------------|---------|
   Completed in one of the following: | 0-18     |
   Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language) |         |
   Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language) |         |

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

   Code | Title                                              | Credits |
   ---- | ----------------------------------------------------|---------|
   Completed in one of the following ways: | 9        |
   Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above |         |
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation), L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students complete in residence at UWM at least 15 upper-division (numbered 300 or above) credits in the major. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**English Major Requirements**

Prospective majors are expected to consult with the associate chair for undergraduate studies in designing a program that satisfies their individual interests, abilities, and ambitions; if appropriate, a particular requirement may be waived to meet a student's special programmatic needs. English majors intending to continue their studies in graduate school are urged to plan with the coordinator a program that meets graduate school expectations and prepares them for the Graduate Record Exam.

Students entering with advanced standing are required to earn at least 15 credits in English courses numbered 300 and above while in residence at UWM.

**Credit Requirements**

All students should be enrolled in or complete ENGLISH 215 in order to declare the major. This is a rigorous sophomore-level course designed to introduce students to the discipline; to teach them how to read closely and critically; and to instruct them in the writing of analytical essays. Since ENGLISH 215 is intended to help students improve their performance in upper-level English courses, it is recommended strongly that students take it before registering for any higher-level courses.

All courses taken towards the major must be at or above the 300 level unless otherwise noted. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

English majors also must complete one of the following tracks. In each track, in their senior year, majors complete a capstone course or senior seminar. This course includes one or more in-depth writing assignments or projects that include a research component, which satisfies the research requirement for the L&S degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Track A: Literary and Cultural Theory</td>
<td>Select one of the following tracks:</td>
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<tr>
<td>Track B: Rhetoric and Professional Writing</td>
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<tr>
<td>Track C: Creative Writing</td>
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<tr>
<td>Track D: Professional and Technical Communications</td>
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<td>Track E: Media, Cinema, and Digital Studies</td>
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<td>Track F: Open Focus</td>
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**Tracks**

**Track A: Literary and Cultural Theory**

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<th>Title</th>
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<tbody>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
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</tbody>
</table>

Select one of the following in English literature from before 1900 and one in pre-1800 literature:
Select two of the following:

- ENGLISH 301: Survey of English Literature, Beginnings to 1500
- ENGLISH 302: Survey of English Literature, 1500-1660
- ENGLISH 303: Survey of English Literature, 1660-1798
- ENGLISH 304: Survey of English Literature, 1798-1900
- ENGLISH 451: Chaucer
- ENGLISH 452: Shakespeare
- ENGLISH 454: Milton
- ENGLISH 455: Writers in Drama:
- ENGLISH 456: Writers in English Literature, 1500-1660:
- ENGLISH 457: Writers in English Literature, 1660-1798:
- ENGLISH 458: Writers in English Literature, 1798-1900:
- ENGLISH 500: Studies in Medieval and Early Modern Literature:
- ENGLISH 501: Studies in Literature, 1500-1660:
- ENGLISH 504: Studies in Literature, 1660-1800:
- ENGLISH 505: Studies in Literature, 1800-1900:
- ENGLISH 530: Studies in Shakespeare:

Select one of the following:

- ENGLISH 307: Survey of American Literature to 1865
- ENGLISH 308: Survey of American Literature, 1865-1965
- ENGLISH 460: Writers in American Literature, 1500-1900:

Select one of the following:

- ENGLISH 378: Survey of Current Literary and Cultural Theory
- ENGLISH 390: Classical Film Criticism and Theory
- ENGLISH 394: Theories of Mass Culture:
- ENGLISH 402: Theories of Language and Literature:
- ENGLISH 432: The Rhetoric of Argument
- ENGLISH 545: Studies in the History of Literary Criticism:
- ENGLISH 547: Studies in Theory and Criticism:
- ENGLISH 626: Seminar in Critical Theory:

Select two of the following:

- ENGLISH 306: Survey of Irish Literature
- ENGLISH 332: Gay and Lesbian Literature:
- ENGLISH 372: Survey of American Indian Literature
- ENGLISH 373: Survey of Ethnic Minority Literature
- ENGLISH 374: Survey of U.S. Latino/a Literature
- ENGLISH 375: Survey of Asian American Literature
- ENGLISH 376: Survey of African-American Literature to 1930
- ENGLISH 377: Survey of African-American Literature, 1930 to the Present
- ENGLISH 381: World Literatures Written in English:
- ENGLISH 463: Writers in African-American Literature:
- ENGLISH 465: Women Writers:
- ENGLISH 517: Studies in African-American Literature:
- ENGLISH 518: Studies in Irish Literature:
- ENGLISH 520: Studies in American Indian Literature:
- ENGLISH 521: Studies in Ethnic Minority Literature:

Select one of the following:

- ENGLISH 522: Studies in World Literature Written in English:
- ENGLISH 523: Studies in U.S. Latino/a Literature:
- ENGLISH 524: Studies in Asian-American Literature:
- ENGLISH 622: Seminar in African-American Literature:
- ENGLISH 628: Seminar in Literature and Sexuality.
- ENGLISH 631: Seminar in African-American Literature:
- ENGLISH 632: Seminar in American Indian Literature:

Select one of the following capstone seminars (satisfies L&S research requirement):

- ENGLISH 415: Fiction Workshop
- ENGLISH 416: Poetry Workshop
- ENGLISH 430: Advanced Writing Workshop
- ENGLISH 431: Topics in Advanced Communications:
- ENGLISH 433: Creative Nonfiction for Publication
- ENGLISH 434: Editing and Publishing
- ENGLISH 435: Rhetoric and Professional Writing
- ENGLISH 436: Technical Documentation
- ENGLISH 437: Project Management for Professional Writers
- ENGLISH 438: Advanced Research Writing
- ENGLISH 615: Advanced Workshop in Fiction
- ENGLISH 616: Advanced Workshop in Poetry

Select one of the following capstone seminars (satisfies L&S research requirement):

- ENGLISH 620: Seminar in the Art of Literature:
- ENGLISH 621: Seminar in the Literature of England:
- ENGLISH 622: Seminar in Irish Literature:
- ENGLISH 623: Seminar in American Literature:
- ENGLISH 624: Seminar in Modern Literature:
- ENGLISH 625: Seminar in Literary History:
- ENGLISH 626: Seminar in Critical Theory:
- ENGLISH 627: Seminar in Literature and Culture:
- ENGLISH 628: Seminar in Literature by Women:
- ENGLISH 629: Seminar in Literature and Sexuality:
- ENGLISH 630: Seminar in Literature and the Other Arts:
- ENGLISH 631: Seminar in African-American Literature:
- ENGLISH 632: Seminar in American Indian Literature:
- ENGLISH 633: Seminar in Rhetoric and Professional Writing:
- ENGLISH 634: Seminar in English Language Studies:
- ENGLISH 685: Honors Seminar:

9 credits in English electives are required for the major. Students can take 9 credits at the 300 level and above, or 6 credits at the 300 level and above, and 3 credits in 200-level literature course selected from the following:

- ENGLISH 221: English Writers to 1800
- ENGLISH 222: English Writers, 1800 to the Present
- ENGLISH 224: American Writers: 1900 to the Present
- ENGLISH 229: Introduction to Modern Literature:
- ENGLISH 243: Introduction to Literature by Women:
- ENGLISH 245: The Life, Times, and Work of a Literary Artist:
### Track B: Rhetoric and Professional Writing

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 240</td>
<td>Rhettoric, Writing, and Culture:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
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<td>ENGLISH 633</td>
<td>Seminar in Rhetoric and Professional Writing: (subtitle) (capstone seminar experience) (satisfies L&amp;S research requirement)</td>
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Select 15 credits in Rhetoric, Professional Writing, and Media Studies  

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<tr>
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<td>Game Culture</td>
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<td>ENGLISH 380</td>
<td>Media and Society:</td>
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<td>ENGLISH 400</td>
<td>Introduction to English Linguistics</td>
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<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
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<td>ENGLISH 426</td>
<td>Professional and Technical</td>
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<td>ENGLISH 427</td>
<td>Writing for Nonprofits</td>
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<td>ENGLISH 431</td>
<td>Topics in Advanced Communications:</td>
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<tr>
<td>ENGLISH 432</td>
<td>The Rhetoric of Argument</td>
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<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
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<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
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<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
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<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
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<td>ENGLISH 439</td>
<td>Information Design</td>
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<td>Grant Writing</td>
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<td>ENGLISH 444</td>
<td>Technical Editing</td>
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<td>ENGLISH 446</td>
<td>Global Business Communications</td>
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<td>ENGLISH 448</td>
<td>Technical Communications Theory and Practice</td>
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<td>ENGLISH 449</td>
<td>Internship in the Humanities</td>
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Select 6 credits in Diversity and Community Studies

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<td>Survey of Ethnic Minority Literature</td>
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<td>Survey of U.S. Latino/a Literature</td>
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<td>ENGLISH 375</td>
<td>Survey of Asian American Literature</td>
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<td>ENGLISH 376</td>
<td>Survey of African-American Literature, 1930</td>
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<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present</td>
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<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<tr>
<td>ENGLISH 463</td>
<td>Writers in African-American Literature:</td>
<td></td>
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<tr>
<td>ENGLISH 465</td>
<td>Women Writers:</td>
<td></td>
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<tr>
<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
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<td>ENGLISH 520</td>
<td>Studies in American Indian Literature:</td>
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<td>ENGLISH 521</td>
<td>Studies in Ethnic Minority Literature:</td>
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<td>Studies in World Literature Written in English:</td>
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<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature:</td>
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<td>ENGLISH 524</td>
<td>Studies in Asian-American Literature:</td>
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<td>ENGLISH 628</td>
<td>Seminar in Literature by Women:</td>
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<td>ENGLISH 629</td>
<td>Seminar in Literature and Sexuality:</td>
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<td>ENGLISH 631</td>
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<td>ENGLISH 632</td>
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Total Credits: 36

### Track C: Creative Writing

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<td>ENGLISH 234</td>
<td>Writing Fiction: Structure and Technique</td>
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<td>ENGLISH 235</td>
<td>Writing Poetry: Forms, Styles, Voices</td>
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<td>ENGLISH 416</td>
<td>Poetry Workshop</td>
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<td>ENGLISH 418</td>
<td>Literary Journal Production</td>
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<tr>
<td>ENGLISH 611</td>
<td>The Writer and the Current Literary Scene</td>
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<tr>
<td>ENGLISH 612</td>
<td>Poetry and the Creative Process</td>
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Select two of the following:

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<td>ENGLISH 418</td>
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<tr>
<td>ENGLISH 611</td>
<td>The Writer and the Current Literary Scene</td>
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<td>ENGLISH 612</td>
<td>Poetry and the Creative Process</td>
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<td>ENGLISH 325</td>
<td>The Art of Fiction:</td>
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<td>ENGLISH 326</td>
<td>The Development of the Novel:</td>
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<td>ENGLISH 327</td>
<td>The Development of the Short Story</td>
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<td>ENGLISH 328</td>
<td>Forms of Experimental Literature:</td>
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<td>ENGLISH 329</td>
<td>Film and Literature</td>
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<td>ENGLISH 341</td>
<td>Development of Drama:</td>
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<td>ENGLISH 342</td>
<td>Comedy:</td>
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<td>ENGLISH 343</td>
<td>Tragedy:</td>
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<td>ENGLISH 344</td>
<td>Modern Drama:</td>
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<td>ENGLISH 360</td>
<td>The Art of Poetry:</td>
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<td>ENGLISH 361</td>
<td>The Development of Poetry:</td>
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<td>ENGLISH 378</td>
<td>Survey of Current Literary and Cultural Theory</td>
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<td>ENGLISH 417</td>
<td>Readings for Writers:</td>
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<td>ENGLISH 515</td>
<td>Literature and the Other Arts:</td>
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<td>ENGLISH 547</td>
<td>Studies in Theory and Criticism:</td>
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<td>ENGLISH 301</td>
<td>Survey of English Literature, Beginnings to 1500</td>
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<td>ENGLISH 302</td>
<td>Survey of English Literature, 1500-1660</td>
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<td>ENGLISH 303</td>
<td>Survey of English Literature, 1660-1798</td>
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<td>ENGLISH 451</td>
<td>Chaucer</td>
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<td>ENGLISH 454</td>
<td>Milton</td>
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<td>Writers in English Literature, 1500-1660:</td>
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<td>ENGLISH 457</td>
<td>Writers in English Literature, 1660-1798:</td>
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<td>ENGLISH 500</td>
<td>Studies in Medieval and Early Modern Literature:</td>
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<td>ENGLISH 501</td>
<td>Studies in Literature, 1500-1660:</td>
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<td>ENGLISH 504</td>
<td>Studies in Literature, 1660-1800:</td>
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<td>ENGLISH 530</td>
<td>Studies in Shakespeare:</td>
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Select one of the following: 3 credits

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<th>Course Title</th>
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<td>ENGLISH 414</td>
<td>Survey of American Literature, 1798-1900:</td>
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<td>ENGLISH 415</td>
<td>Survey of American Literature:</td>
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<td>ENGLISH 416</td>
<td>Survey of American Literature, 1865-1965:</td>
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<tr>
<td>ENGLISH 309</td>
<td>Survey of Contemporary American Literature</td>
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<tr>
<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature:</td>
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<tr>
<td>ENGLISH 372</td>
<td>Survey of American Indian Literature:</td>
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<tr>
<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature:</td>
</tr>
<tr>
<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature:</td>
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<tr>
<td>ENGLISH 375</td>
<td>Survey of Asian American Literature:</td>
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<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present:</td>
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<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<td>ENGLISH 455</td>
<td>Writers in Drama:</td>
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<td>ENGLISH 458</td>
<td>Writers in English Literature, 1798-1900:</td>
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<td>ENGLISH 459</td>
<td>Writers in English Literature, 1900 to the Present:</td>
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<td>Writers in American Literature, 1900 to the Present: (subtitle)</td>
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<td>Women Writers:</td>
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<td>Studies in Literature, 1800-1900:</td>
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<td>Studies in Literature, 1900 to the Present:</td>
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<td>Studies in Irish Literature:</td>
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<td>ENGLISH 522</td>
<td>Studies in World Literature Written in English:</td>
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<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature:</td>
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<td>Studies in Asian-American Literature:</td>
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<td>ENGLISH 525</td>
<td>American Indian Literature, Culture, and Creative Arts:</td>
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Select 3 credits in an upper-level English elective

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<td>ENGLISH 615</td>
<td>Advanced Workshop in Fiction (capstone experience) (satisfies L&amp;S research requirement)</td>
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<td>ENGLISH 616</td>
<td>Advanced Workshop in Poetry:</td>
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Total Credits 36

Please Note: In order to register for the ENGLISH 615 or ENGLISH 616 capstone (see below), students must have completed successfully two 400-level workshops (ENGLISH 414, ENGLISH 415, ENGLISH 416) as follows:

- Prerequisites for ENGLISH 615 fiction capstone: ENGLISH 415 and one of the following: a second section of ENGLISH 415 or ENGLISH 414 or ENGLISH 416.
- Prerequisites for ENGLISH 616 poetry capstone: ENGLISH 416 and one of the following: a second section of ENGLISH 416 or ENGLISH 414 or ENGLISH 415.
- Students may not take the two required 400-level workshops in the same semester, and they may not take either of them concurrently with ENGLISH 615/ENGLISH 616.

Track G: Professional and Technical Communications

<table>
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<th>Code</th>
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<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
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Select 6 credits in English courses outside of Track G at the 300 level or above (i.e., literature, rhetoric, creative writing, or film and media studies)

Professional and Technical Communications Core

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<td>Information Design</td>
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Select two of the following:

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<tbody>
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<td>ENGLISH 426</td>
<td>Professional and Technical Communications Research</td>
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<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
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<td>ENGLISH 448</td>
<td>Technical Communications Theory and Practice</td>
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<td>ENGLISH 449</td>
<td>Internship in the Humanities (satisfies L&amp;S research requirement)</td>
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Select 3 credits in English 600-level seminar 3

Professional and Technical Communications Practice
Select four of the following: 12

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<td>Technical Writing 1</td>
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<td>ENGLISH 207</td>
<td>Health Science Writing 1</td>
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<td>ENGLISH 214</td>
<td>Writing in the Professions: 1</td>
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<td>ENGLISH 426</td>
<td>Professional and Technical Communications Research</td>
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<td>Topics in Advanced Communications:</td>
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<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
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<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
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<td>Rhetoric and Professional Writing</td>
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<td>ENGLISH 436</td>
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<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
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<td>ENGLISH 443</td>
<td>Grant Writing</td>
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<td>ENGLISH 444</td>
<td>Technical Editing</td>
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<td>ENGLISH 448</td>
<td>Technical Communications Theory and Practice</td>
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Total Credits 36

1 3 credits maximum selected from ENGLISH 205, ENGLISH 206, ENGLISH 207, or ENGLISH 214.

Track H: Media, Cinema, and Digital Studies

Select two of the following: 6

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<tr>
<td>ENGLISH 291</td>
<td>Introduction to Television Studies</td>
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<td>ENGLISH 294</td>
<td>Game Culture</td>
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Select one of the following: 3

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<td>Survey of English Literature, 1500-1660</td>
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<td>ENGLISH 303</td>
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<td>ENGLISH 304</td>
<td>Survey of English Literature, 1798-1900</td>
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<td>ENGLISH 305</td>
<td>Survey of English Literature: 1900 to the Present</td>
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<td>Survey of Irish Literature</td>
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<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
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<td>Survey of American Literature, 1865-1965</td>
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<td>Survey of Contemporary American Literature</td>
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<td>ENGLISH 325</td>
<td>The Art of Fiction:</td>
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<tr>
<td>ENGLISH 326</td>
<td>The Development of the Novel:</td>
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<td>ENGLISH 327</td>
<td>The Development of the Short Story</td>
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<td>ENGLISH 328</td>
<td>Forms of Experimental Literature:</td>
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<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature:</td>
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<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
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<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing:</td>
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<td>ENGLISH 415</td>
<td>Fiction Workshop</td>
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<td>ENGLISH 425</td>
<td>- ENGLISH 438</td>
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<td>ENGLISH 451</td>
<td>- ENGLISH 547</td>
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<td>ENGLISH 390</td>
<td>Classical Film Criticism and Theory or ENGLISH 391</td>
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<td>ENGLISH 399</td>
<td>Television Criticism and Theory</td>
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Select 12 credits in media, cinema, and digital studies (including at least 3 credits from each area and no more than 3 credits in 200-level courses): 12

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<td>Writing about Film and Television</td>
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<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies (if not selected above)</td>
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<td>ENGLISH/FILMSTD 293</td>
<td>Literature and Media:</td>
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<td>ENGLISH/FILMSTD 300</td>
<td>Media and Society:</td>
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<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
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<td>ENGLISH/FILMSTD 393</td>
<td>Entertainment Industries:</td>
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<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
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<tr>
<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing:</td>
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<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (with appropriate subtitle) (Contact Track H Coordinator)</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
</tr>
</tbody>
</table>

Cinema

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENGLISH/FILMSTD 286</td>
<td>Writing about Film and Television</td>
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<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies (if not selected above)</td>
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<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
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<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies:</td>
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<td>ENGLISH/FILMSTD 316</td>
<td>World Cinema:</td>
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<td>ENGLISH/FILMSTD 320</td>
<td>Studies in Film Authorship:</td>
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<td>ENGLISH/FILMSTD 329</td>
<td>Film and Literature</td>
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<td>ENGLISH/FILMSTD 383</td>
<td>Cinema and Genre:</td>
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<td>ENGLISH/FILMSTD 390</td>
<td>Classical Film Criticism and Theory</td>
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<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
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<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing:</td>
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<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
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<td>FILMSTD/JEWISH350</td>
<td>Global Jewish Film and Television:</td>
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<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization:</td>
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<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality</td>
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<tr>
<td>FILMSTD 690</td>
<td>Seminar in Contemporary Cinema and Media: (if not selected as capstone)</td>
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**Digital Studies**

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<tr>
<td>ENGLISH 294</td>
<td>Game Culture (if not selected above)</td>
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<td>ENGLISH/FILMSTD312</td>
<td>Topics in Film Studies: (Cinema and Digital Studies)</td>
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<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing: (Animated Texts)</td>
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<td>ENGLISH 436</td>
<td>Technical Documentation</td>
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</tr>
<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts: (From Dada to the Web)</td>
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<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
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Select 6 credits in upper-level electives 6

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<tr>
<td>FILMSTD 690</td>
<td>Seminar in Contemporary Cinema and Media: (capstone seminar experience) (satisfies L&amp;S research requirement)</td>
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Total Credits 36

**Track O: Open Focus**

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<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
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At least 3 credits in literature must be in a period before 1900. They can be taken in American Literature, British Literature or any other literature course in the English department. Students must also complete a 3 credit capstone seminar at the 600 level (612, 615 - 616, 620 – 634, 685, 690), which may be in any of the areas listed below.

**American Literature**

Select one of the following courses in American Literature

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<td>ENGLISH 224</td>
<td>American Writers: 1900 to the Present</td>
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<tr>
<td>ENGLISH 269</td>
<td>Literary Forms and Genres:</td>
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<td>ENGLISH 274</td>
<td>Literature and the Other Arts:</td>
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<tr>
<td>ENGLISH 275</td>
<td>The Forms of Folk Literature:</td>
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<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature:</td>
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<tr>
<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature:</td>
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<tr>
<td>ENGLISH 278</td>
<td>Introduction to World Literatures Written in English:</td>
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<tr>
<td>ENGLISH 279</td>
<td>Introduction to U.S. Latino/a Literature:</td>
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<td>ENGLISH 280</td>
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<td>ENGLISH 281</td>
<td>Introduction to African-American Literature:</td>
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<tr>
<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
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<td>ENGLISH 308</td>
<td>Survey of American Literature, 1865-1965</td>
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<td>ENGLISH 309</td>
<td>Survey of Contemporary American Literature</td>
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<tr>
<td>ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
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<td>ENGLISH 373</td>
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<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature</td>
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<td>ENGLISH 375</td>
<td>Survey of Asian American Literature</td>
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<tr>
<td>ENGLISH 376</td>
<td>Survey of African-American Literature to 1930</td>
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<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present</td>
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<tr>
<td>ENGLISH 460</td>
<td>Writers in American Literature, 1500-1900:</td>
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<td>Studies in Asian-American Literature:</td>
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<td>ENGLISH 631</td>
<td>Seminar in African-American Literature:</td>
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<td>ENGLISH 632</td>
<td>Seminar in African American Literature:</td>
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<tr>
<td>ENGLISH 633</td>
<td>Seminar in the Literature of England:</td>
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Minority, Women’s or World Literature 3
Select one of the following courses in Minority, Women’s or World Literature

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<td>Introduction to Literature by Women:</td>
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<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature:</td>
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<tr>
<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature:</td>
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<tr>
<td>ENGLISH 278</td>
<td>Introduction to World Literatures Written in English:</td>
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<tr>
<td>ENGLISH 279</td>
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<td>ENGLISH 280</td>
<td>Introduction to Asian-American Literature:</td>
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<td>ENGLISH 281</td>
<td>Introduction to African-American Literature:</td>
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<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature:</td>
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<tr>
<td>ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
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<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature</td>
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<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature</td>
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<td>ENGLISH 375</td>
<td>Survey of Asian American Literature</td>
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<td>ENGLISH 376</td>
<td>Survey of African-American Literature to 1930</td>
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<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present</td>
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<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<td>Writers in African-American Literature:</td>
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<td>ENGLISH 465</td>
<td>Women Writers:</td>
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<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
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<td>Studies in Irish Literature:</td>
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<td>ENGLISH 520</td>
<td>Studies in American Indian Literature:</td>
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<td>Studies in Ethnic Minority Literature:</td>
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<td>Studies in U.S. Latino/a Literature:</td>
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<td>Studies in Asian-American Literature:</td>
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<td>Seminar in Irish Literature:</td>
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<td>ENGLISH 627</td>
<td>Seminar in Literature and Culture:</td>
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<td>ENGLISH 628</td>
<td>Seminar in Literature by Women:</td>
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<td>ENGLISH 629</td>
<td>Seminar in Literature and Sexuality:</td>
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<td>Seminar in American Indian Literature:</td>
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Select two of the following courses in Rhetoric, Professional, Technical or Creative Writing

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<td>Business Writing</td>
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<td>ENGLISH 206</td>
<td>Technical Writing</td>
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<td>ENGLISH 207</td>
<td>Health Science Writing</td>
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<td>ENGLISH 210</td>
<td>Global Englishes</td>
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<td>ENGLISH 212</td>
<td>Grammar and Usage</td>
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<td>ENGLISH 214</td>
<td>Writing in the Professions:</td>
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<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
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<td>Rhetoric, Writing, and Culture:</td>
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<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
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<td>ENGLISH 400</td>
<td>Introduction to English Linguistics</td>
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<td>ENGLISH 401</td>
<td>History of the English Language</td>
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<td>ENGLISH 402</td>
<td>Theories of Language and Literature:</td>
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<td>ENGLISH 403</td>
<td>Survey of Modern English Grammar</td>
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<td>Language, Power, and Identity</td>
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<td>Special Topics in Creative Writing:</td>
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<td>ENGLISH 415</td>
<td>Fiction Workshop</td>
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<td>Poetry Workshop</td>
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<td>Strategic Writing for Organizations</td>
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<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
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<td>The Rhetoric of Argument</td>
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<td>Project Management for Professional Writers</td>
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<td>Technical Editing</td>
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<td>ENGLISH 445</td>
<td>The Composing Process:</td>
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<td>ENGLISH 446</td>
<td>Global Business Communications</td>
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<td>ENGLISH 448</td>
<td>Technical Communications Theory and Practice</td>
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<td>ENGLISH 449</td>
<td>Internship in the Humanities</td>
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<tr>
<td>ENGLISH 611</td>
<td>The Writer and the Current Literary Scene</td>
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<td>ENGLISH 612</td>
<td>Poetry and the Creative Process</td>
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<td>Advanced Workshop in Fiction</td>
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<td>Advanced Workshop in Poetry:</td>
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Select one of the following courses in Theory and Criticism

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<td>Classical Film Criticism and Theory</td>
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<td>ENGLISH 391</td>
<td>Television Criticism and Theory</td>
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<td>ENGLISH 393</td>
<td>Entertainment Industries:</td>
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<td>ENGLISH 394</td>
<td>Theories of Mass Culture:</td>
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<td>ENGLISH 545</td>
<td>Studies in the History of Literary Criticism:</td>
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<td>Studies in Theory and Criticism:</td>
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<td>ENGLISH 626</td>
<td>Seminar in Critical Theory:</td>
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Select one of the following courses in Rhetoric, Professional, Technical or Creative Writing

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</table>
undergraduate major or minor in English: students in English, but may not be used to fulfill the requirements of the undergraduate major or minor in English. The following courses offered by other departments may be of interest to students in English. Related Courses

The following courses offered by other departments may be of interest to students in English. Related Courses

Cross-listed Courses

The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major or minor in English. Only 3 credits in courses from Communication, Theater, and Journalism, Advertising and Media Studies will count toward the English major. Cross-listed Courses

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors. Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process. All students are cautioned to consult their Letters & Science advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation. Honors in the Major

English majors need to meet the following three criteria in order to graduate with Honors in the Major:

1. minimum 3.000 cumulative GPA on all UWM graded credits attempted;
2. minimum 3.500 GPA on all credits attempted that count toward the major; and
3. minimum 3.500 GPA on all advanced (300+) credits that count toward the major.

Students who meet these criteria should apply to the coordinator of undergraduate studies.
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Gilberto Blasini, gblasini@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/english/undergraduate/

English, MA
The Department of English offers master's and doctoral degrees in several areas of specialization: Literature and Cultural Theory; Rhetoric and Composition; Creative Writing; Professional and Technical Writing; and Media, Cinema, and Digital Studies. Students apply for admission to a specific area or concentration, but are encouraged to take classes in others.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in English or related field, with appropriate background for proposed concentration of study. Plan A, broad background in English and American literature; Plan B, literature, linguistics, and/or composition; Plan C, literature and creative writing; Plan G, professional writing; Plan H, background in media studies, film studies, or digital and/or popular culture.

2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Three letters of recommendation to the Department's Director of Graduate Studies from persons familiar with applicant's academic ability and achievement.
4. A sample of academic writing.
5. For Plan C admission, an applicant must also submit samples of original fiction or poetry.

For more specific information about departmental requirements for admission and instructions for submitting, letters of recommendation, please visit the English Department's Graduate Admissions Web page.

Credits and Courses

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the five plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a PhD at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master's level may be included in the 54 credits required for the PhD.

Plan A (Literature and Cultural Theory)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 703</td>
<td>Introduction to Graduate Studies in Literature (must be taken in first semester)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in literature courses (at least 3 credits pre-1800)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 8 credits of electives</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 30

Plan B (Rhetoric and Professional Writing)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Which may include up to 5 credits of ENGLISH 790.

Additional Requirements
- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

Plan C (Literature and Creative Writing)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 credits in literature courses (at least 3 credits pre-1800)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 8 credits of electives</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 30

Plan D (Public Rhetoric and Community Engagement)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 credits in literature courses (at least 3 credits pre-1800)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 8 credits of electives</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 30

Plan E (Digital Studies)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 credits in literature courses (at least 3 credits pre-1800)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 8 credits of electives</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 30

Additional Requirements
- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)
ENGLISH 713  Research Methods in Rhetorics, Literacies, and Community Engagement  3
ENGLISH 750  History of Rhetoric and Writing Studies  3
Select 18 credits of electives  18

ENGLISH 427  Writing for Nonprofits
ENGLISH 431G  Topics in Advanced Communications:
ENGLISH 432  The Rhetoric of Argument
ENGLISH 439  Information Design
ENGLISH 443  Grant Writing
ENGLISH 444  Technical Editing
ENGLISH 633G  Seminar in Rhetoric and Professional Writing:
ENGLISH 701  Writing Pedagogies
ENGLISH 711  Topics in Public and Professional Writing:
ENGLISH 749  Advanced Internship in Writing and Community Engagement
ENGLISH 755  Issues in Writing Research
ENGLISH 790  Master's Project  3
ENGLISH 854  Seminar in College Writing Pedagogy:
ENGLISH 855  Seminar in Public Rhetorics and Community Engagement:

Total Credits  30

1  ENGLISH 705 is a one credit course and must be taken 3 times to receive the 3 credits needed for degree.
2  9 of the 18 elective credits must be in the 700 and 800 level courses.
3  Electives may include up to 6 credits of ENGLISH 790.

Additional Requirements
- A final project, which shall be a research paper appropriate to the student's professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level); Research Methods

Note: Students who plan to apply to the PhD program are advised to select 6 credits in literature or language courses as part of their electives.

Plan C (Creative Writing)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 600-700 Level Literature Courses (at least 3 credits at the 700 level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715 &amp; ENGLISH 815</td>
<td>Narrative Craft and Theory; and Seminar in Fiction Writing:</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 716 &amp; ENGLISH 816</td>
<td>Poetic Craft and Theory; and Seminar in Poetry Writing:</td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits in writing courses at the 600 or 700 level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits of electives  1</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits  30

1  Which may include up to 6 credits of ENGLISH 790.

Additional Requirements
- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student’s literary background and interests.

Plan G (Professional Writing)
A minimum of 30 credits, selected in consultation with the student's advisor, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 855</td>
<td>Seminar in Public Rhetorics and Community Engagement: (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits of the following which are especially recommended:  5</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (Subtitle)</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 444</td>
<td>Technical Editing</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 707</td>
<td>Writing for Business Management</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Public and Professional Writing: (Subtitle)</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits  30

1  ENGLISH 705 is a one credit course and must be taken 3 times to receive the 3 credits needed for degree.
2  Or a related topic area approved by the advisor.
3  Or at the 400 level with the approval of a Plan G faculty advisor.
Students can take no more than 6 credits in any combination of 400-level U/G courses and interdisciplinary courses.

Students should consult with their advisor about which option would best suit their background and career goals. In general, students with little workplace experience will take the internship and those with substantial workplace experience will take a 700-level elective.

Note: Students who elect to complete a workplace project should expect to prepare a 30-page report justifying the project development and decisions in relationship to the relevant scholarly literature and/or in terms of empirical methods or studies conducted by the student.

Plan H (Media, Cinema, and Digital Studies)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in 700-level seminars in digital studies (theory, criticism, or writing) film and/or media</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Public and Professional Writing: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALLT 740</td>
<td>Approaches to the Modern I</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALLT 741</td>
<td>Approaches to the Modern II</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 700</td>
<td>Teaching Film Studies: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits of electives in courses numbered 700 and above</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits 30

1 Which may include up to 6 credits of ENGLISH 790.

Additional Requirements

Major Professor as Advisor
The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The coordinator of the student's concentration serves as an initial advisor.

Final Project
A research paper or other project appropriate to the student's professional goals.

Oral Examination
Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

Regulations Concerning Final Projects and Oral Examinations
1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student's MA Committee. The project serves both as a concluding effort at the master's level and also as an indication of a student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be English Graduate Faculty. The MA Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master's level is applicable to the PhD 54 credit requirement.

4. The Examining Committee offers a recommendation regarding the student's qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student's academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the MA project and examination, see the English Graduate Program Handbook.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

English, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS
credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA English**

The MLIS/MA English Coordinated Degree Program prepares students for positions as humanities librarians.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

**Requirements**
Students interested in the English MA/MLIS program are expected to follow all the requirements and standards as described in this section of the Catalog with the following exceptions: the 21 credits required for the MA in English in the coordinated degree program are to be taken within the Department. Courses in related areas must be approved by the Director of Graduate Studies in English. For more information on this program, see the Library and Information Science page.

**Credits and Courses**

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses 18

Total Credits 30

**Important**
You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

**English Courses**

Students in the MA/MLIS program may subtract 9 elective credits from their chosen concentration below.

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the five plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master's level may be included in the 54 credits required for the Ph.D.

**Plan A (Literature and Cultural Theory)**
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 703</td>
<td>Introduction to Graduate Studies</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
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<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 8 credits of electives 1</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30

1 Which may include up to 5 credits of ENGLISH 790.

**Additional Requirements**

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

**Plan B (Rhetoric and Composition)**
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td></td>
</tr>
</tbody>
</table>

Select 18 credits of electives 1

Total Credits 30

1 Which may include up to 6 credits of ENGLISH 790.

**Additional Requirements**

- A final project, which shall be a research paper appropriate to the student's professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level); Research Methods

**Note:** Students who plan to apply to the Ph.D. program are advised to select 6 credits in literature or language courses as part of their electives.
### Plan C (Creative Writing)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: and Seminar in Fiction Writing:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 716 &amp; ENGLISH 816</td>
<td>Poetic Craft and Theory: and Seminar in Poetry Writing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in writing courses at the 600 or 700 level</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 12 credits of electives ¹</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

¹ Which may include up to 6 credits of ENGLISH 790.

### Additional Requirements
- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student's literary background and interests.

### Plan G (Professional Writing)
A minimum of 30 credits, selected in consultation with the student's advisor, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Seminar in Public Rhetorics and Community Engagement: (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 705</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Seminar in Public Rhetorics and Community Engagement: (recommended)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Seminar in Professional Writing: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: and Seminar in Fiction Writing:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALLT 740</td>
<td>Approaches to the Modern I:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALLT 741</td>
<td>Approaches to the Modern II:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 700</td>
<td>Teaching Film Studies: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 12 credits of electives in courses numbered 700 and above ¹</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

¹ Which may include up to 6 credits of ENGLISH 790.
Additional Requirements

Major Professor as Advisor
The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The coordinator of the student's concentration serves as an initial advisor.

Final Project
A research paper or other project appropriate to the student's professional goals.

Oral Examination
Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

Regulations Concerning Final Projects and Oral Examinations
1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student's MA Committee. The project serves both as a concluding effort at the master's level and also as an indication of a student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be English Graduate Faculty. The MA Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master's level is applicable to the PhD 54 credit requirement.

4. The Examining Committee offers a recommendation regarding the student's qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student's academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the MA project and examination, see the English Graduate Program Handbook.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

English, Minor

Minoring in English provides students with a wealth of intellectual and practical learning, a foundation to future success. In today's high-technology, interconnected world, the ability to read carefully, think imaginatively, understand others, and communicate across all types of platforms and formats is essential.

In small classes, our students learn to understand the power and possibilities of the English language across the centuries and around the world. Students learn to think critically, write persuasively, argue logically, delve deeply into history, and explore their own creativity. Students are challenged to examine their own assumptions, sharpen their writing, and learn how to read and understand even the most difficult works, from fiction to philosophy.

Requirements
The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor in English requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select at least one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 451</td>
<td>Chaucer</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 452</td>
<td>Shakespeare</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 454</td>
<td>Milton</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 530</td>
<td>Studies in Shakespeare: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 12 credits in English courses numbered 300 and above (at least 9 taken in residence at UWM)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Associate Professor Gilberto Blasini, gblasini@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/english/undergraduate/

English, PhD

The Department of English offers master's and doctoral degrees in several areas of specialization: Literature and Cultural Theory; Rhetoric and Composition; Creative Writing; Professional and Technical Writing; and Media, Cinema, and Digital Studies. Students apply for admission to a specific area or concentration, but are encouraged to take classes in others.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students in the UWM Master of Arts degree program in English must pass an M.A. exam and be recommended for admission into the Ph.D. program by their M.A. committee. An application for the Ph.D. program also must be submitted to the Graduate School.

Applicants with master's degrees from other institutions are evaluated on the basis of standard application materials:

- GPA
- Statement of Purpose
• Three Supporting Letters
• A Sample of Academic Writing

Such applicants are admitted to doctoral study provisionally and are required to complete an Academic Review within six weeks of finishing 12 credits.

For more specific information about departmental requirements for admission, please visit the English Department’s Graduate Admissions Web page (http://www4.uwm.edu/letsci/english/grad/admissions.cfm).

The Academic Review is a one- to two-hour meeting with three faculty members of the English Graduate Faculty. At least two members come from the student’s concentration. The Review covers the student’s academic progress in doctoral coursework, two unrevised course papers, and a list of 20-25 books chosen by the student in consultation with the reviewers. See the English Graduate Program Handbook for further details regarding the Academic Review. Applicants should contact the Graduate Program Office for additional information and deadlines.

Credits and Courses
The Ph.D. program requires 54 credits beyond the B.A. (55 for Public Rhetorics and Community Engagement, 56 for Literature and Cultural Theory), including no more than 27 credits earned at the master’s level. Course distribution requirements vary according to the doctoral concentration a student enters.

Doctoral Concentration
Students applying to the English doctoral program must indicate their preference for one of the following doctoral concentrations: Literature and Cultural Theory; Public Rhetorics and Community Engagement; Creative Writing; Professional and Technical Writing; Media, Cinema, and Digital Studies. The Director of Graduate Studies and a Program Coordinator for each concentration provide initial advising for the student in course enrollment and in selecting a Major Professor for long-term advising. Although a continuing doctoral student can change concentrations, such changes require approval by the Coordinator of the new concentration and the Director of Graduate Studies, and may require a substantial amount of additional coursework.

Because course requirements change frequently, students should regularly consult with Program Coordinators or the Director of Graduate Studies regarding doctoral concentration requirements. The following listings reflect current curricular requirements:

Literature and Cultural Theory

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Seminar in Advanced Topics in Literary Criticism and Research:</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>4-6</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 713</td>
<td>Research Methods in Rhetorics, Literacies, and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 24 credits from the list of core courses below (no more than 6 credits from courses below the 700 level) | 24 |

Select 15 credits of electives | 15 |

Total Credits | 55-57 |

Creative Writing

Select one of the following: | 6 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: &amp; ENGLISH 815 Seminar in Fiction Writing:</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 716</td>
<td>Poetic Craft and Theory: &amp; ENGLISH 816 Seminar in Poetry Writing:</td>
<td>1</td>
</tr>
</tbody>
</table>

Select 21 credits at the graduate level in literature and cultural theory, rhetoric and composition, professional writing, and/or media, cinema, and digital studies | 21 |
Doctoral students may not accumulate more than 6 credits of ENGLISH 999.

**Professional Writing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 713</td>
<td>Research Methods in Rhetorics, Literacies, and Community Engagement</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 24 credits of electives

Total Credits 54

**Media, Cinema, and Digital Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 876</td>
<td>Seminar in Media Culture: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits in 800-level digital culture (theory, criticism or writing), film and/or media</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

ENGLISH 705 Public Rhetorics and Community Engagement Colloquium
ENGLISH 709 Rhetoric, Writing, and Information Technology
ENGLISH 711 Topics in Public and Professional Writing: (Subtitle)
ENGLISH 714 Usability Studies
ENGLISH 715 Narrative Craft and Theory: (Subtitle)
ENGLISH 720 Modern Literary Theory
ENGLISH 737 Literature and Aesthetics
ENGLISH/HIST/ MALLT 740 Approaches to the Modern I
ENGLISH/HIST/ MALLT 741 Approaches to the Modern II
ENGLISH 743 Film Studies: (Subtitle)
ENGLISH 753 Contemporary Rhetorical Theory
ENGLISH 775 Modern English Literature: (Subtitle)
FILMSTD 669 Screening Sexuality: (Subtitle)
FILMSTD 700 Teaching Film Studies: (Subtitle)

Select 30 credits in electives numbered 700 and above

Total Credits 54

**Additional Requirements**

**General Restrictions**

Doctoral students may not accumulate more than 12 credits in U/G courses and not more than 6 credits in independent study without the approval of the Director of Graduate Studies. No more than 18 credits may be taken in courses outside the Department.

**Advising**

Students are required to consult periodically with their Major Professor. The Major Professor helps the student to define an area of special interest within the concentration for the preliminary examination. The Major Professor also assists the student in the selection of appropriate coursework and may chair the Preliminary Examination Committee.

**Foreign Language Requirement**

All Ph.D. candidates are required to demonstrate proficiency (reading knowledge) in a foreign language. The choice of a language must be approved by the student's advisor. If a student has not met this requirement in other ways (see English Graduate Program Handbook), a student must pass a two-hour written examination in the translation of a piece of literature or criticism. A student may use a dictionary and/or a grammar book. The exam must be arranged in advance with the Director of Graduate Studies and must be taken before the preliminary examination. If a student's Major Professor considers proficiency in more than one language necessary to the student's specific plan of study, exams in more than one language may be required. The exam may be retaken until proficiency is attained.

**Residence**

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

**Doctoral Preliminary Examination**

The doctoral preliminary examination consists of a written examination and an oral examination designed to demonstrate the breadth of a student's knowledge and the ability to conduct advanced research in one or more areas of study. The written and oral examinations draw from field bibliographies with rationale (500 word maximum) prepared by the student and approved by the student's preliminary examination committee and the advisory committee of the student's plan.

The written examination must be at least eight hours long, and it is frequently taken as a three-day, take-home, open book exam. It may be taken at the University or at home, if the committee agrees on the location. An oral exam of two hours covering issues raised during the written exam and/or focusing on the proposed dissertation must follow the written exam within 7-10 days.

Students take the preliminary exam after completing all doctoral coursework or with no more than three credits of doctoral coursework remaining. Students cannot take the exam if they have any incomplete or unreported grades or a GPA less than 3.0. The exam must be finished within one semester after all coursework is completed, excluding summer session. Students may receive a one semester extension for additional coursework from the Director of Graduate Studies. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. See the English Graduate Program Handbook (http://uwm.edu/english/graduate/graduate-resources/grad-handbook/) or the Director of Graduate Studies for specific guidelines for governing the preliminary examination process.
The dissertation topic, together with a brief prospectus, must be approved by the Graduate Policy Committee. The student's major professor or a member of the dissertation committee must present the topic and prospectus to the Graduate Policy Committee. See the Director of Graduate Studies and the English Graduate Program Handbook (http://uwm.edu/english/graduate/graduate-resources/grad-handbook/) for specific guidelines for selecting a doctoral committee and preparing the dissertation proposal. The Department considers 200 pages a reasonable length for the dissertation.

The completed dissertation is subject to an oral defense, to be arranged by the Coordinator according to Graduate School regulations. A copy of the dissertation is kept in the Department office.

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements/).

Whatever your major, the English Minor in Writing, Editing, and Publishing can add significantly to your career preparation. This highly flexible option lets you choose from among a broad array of classes ranging from professional and technical writing to creative writing, writing about literature and culture, magazine editing, document design, and writing about film and media. You will learn about and practice diverse genres, gaining skill in composing and revising your work in professional formats, including multimedia and web platforms as well as in traditional print publications. Students can mix professional courses with creative writing classes as they pursue development of their own interests and expressive potential.

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The College requires that students complete at least 9 credits of the minor in upper-division (numbered 300 or above) courses at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 2 lower division courses for a total 6 credits from the list below.</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 234</td>
<td>Writing Fiction: Structure and Technique</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 235</td>
<td>Writing Poetry: Forms, Styles, Voices</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 236</td>
<td>Introductory Topics in Creative Writing:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 240</td>
<td>Rhetoric, Writing, and Culture:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 286</td>
<td>Writing about Film and Television</td>
<td></td>
</tr>
</tbody>
</table>

Select 3 upper division courses for a total of 9 credits.

ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century
ENGLISH 414 Special Topics in Creative Writing:
ENGLISH 415 Fiction Workshop
ENGLISH 416 Poetry Workshop
ENGLISH 418 Literary Journal Production
ENGLISH 426 Professional and Technical Communications Research
ENGLISH 428 Strategic Writing for Organizations
ENGLISH 431 Topics in Advanced Communications:
ENGLISH 432 The Rhetoric of Argument
ENGLISH 433 Creative Nonfiction for Publication
ENGLISH 434 Editing and Publishing
ENGLISH 435 Rhetoric and Professional Writing
ENGLISH 436 Technical Documentation
ENGLISH 438 Advanced Research Writing
ENGLISH 439 Information Design
ENGLISH 443 Grant Writing
ENGLISH 444 Technical Editing
ENGLISH 445 The Composing Process:
ENGLISH 448 Technical Communications Theory and Practice
ENGLISH 449 Internship in the Humanities
ENGLISH 612 Poetry and the Creative Process
ENGLISH 615 Advanced Workshop in Fiction
ENGLISH 616 Advanced Workshop in Poetry:
ENGLISH 633 Seminar in Rhetoric and Professional Writing:

Total Credits 18

Contact Information
Current Students contact Associate Professor Gilberto Blasini, gblasini@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/english/undergraduate/

Professional Writing and Communication, Graduate Certificate
This program is currently not accepting applications.

The Professional Writing and Communication Graduate Certificate is designed for post-baccalaureate students seeking professional training and education to advance their careers.
The Certificate is a joint offering by the Professional Writing Program in the Department of English and the Department of Communication. It is a popular option for anyone seeking academic credentials and will qualify graduates to compete for jobs involving writing or communication or for advancement opportunities at their current places of employment.

There is no single “typical” certificate student, but many of our students are:

- BA/BS graduates in a major other than English or Communication with little or no related work experience in writing who are seeking a change in their job or career.
- Happy with their current employer, but hoping to qualify for more writing and communication responsibilities or for promotional opportunities that might involve project management, assessment, training, and other activities that require writing or communications experience.
- Seeking specialized and current instruction in writing or communication to qualify for more jobs or assist their employer in keeping up with current technologies, concepts, and standards in professional writing or communication.

It’s possible to complete all the Certificate courses online, but many students also choose to take both online and face-to-face courses to complete their Certificate.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.
- In addition, send the following items directly to the Department of English:

  1. A portfolio of writing samples.
  2. Two letters of recommendation from persons knowledgeable about applicants’ recent academic or work experience.
  3. A statement of purpose that identifies the applicants’ knowledge of workplace communication practices and business operations, their professional experience, or basic undergraduate coursework in business writing, technical writing, and communication.

  4. A statement describing the applicants’ access to and operational knowledge of online communication technology, including a PC or equivalent computer system with Internet access and other applications sufficient to participate in the program's online learning activities.
  5. An unofficial transcript from each undergraduate and graduate institution attended.

Mailing Address: Department of English, Attn: Certificate Program, UWM, P.O. Box 413, Milwaukee, WI 53201-0413

Eligibility and Admission

Students must have completed a bachelor’s degree with a minimum GPA of 2.75.

Credits and Courses

Students must complete 15 credits of coursework as outlined below. The Certificate will be awarded when students achieve the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (subtitle)</td>
<td>9</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
<td></td>
</tr>
<tr>
<td>or ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 444</td>
<td>Technical Editing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Public and Professional Writing: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 713</td>
<td>Research Methods in Rhetorics, Literacies, and Community Engagement</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
</tr>
<tr>
<td>COMMUN 710</td>
<td>Managerial Communication</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
</tr>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
</tr>
<tr>
<td>COMMUN 810</td>
<td>Studies of Communication in Organizations</td>
</tr>
<tr>
<td>COMMUN 813</td>
<td>Seminar in Mediated Communication</td>
</tr>
<tr>
<td>COMMUN 815</td>
<td>Communication Technologies in Organizations</td>
</tr>
<tr>
<td>COMMUN 820</td>
<td>Communication in Customer Service Settings</td>
</tr>
</tbody>
</table>
Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
   2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
   3. A course may count toward no more than one certificate and one degree.
   4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   • 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
   • 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
dclark@uwm.edu

http://uwm.edu/techcom/

Comparative Ethnic Studies
Rachel Buff, Professor of History, Program Coordinator, rbuff@uwm.edu

The Comparative Ethnic Studies Program offers an undergraduate major through the Committee Interdisciplinary Major, an undergraduate certificate in Comparative Ethnic Studies, and an undergraduate certificate in Hmong Diaspora Studies.

Programs
• Committee Interdisciplinary Major, BA: Comparative Ethnic Studies (p. 873)
• Comparative Ethnic Studies, Undergraduate Certificate (p. 878)
• Hmong Diaspora Studies, Undergraduate Certificate (p. 880)

Committee Interdisciplinary Major,
BA: Comparative Ethnic Studies

Comparative Ethnic Studies is an interdisciplinary field that examines issues of social identity and power, in contemporary and historical contexts. The field centers on questions of race, gender, and sexuality. Students are free to select from a range of courses in the Ethnic Studies program, and to include coursework they do from around the university their academic programs.

Unique to UWM, our program offers courses covering the Hmong diaspora. Wisconsin is home to the third largest Hmong American population in the US, making UWM a great place to learn about this population.

The Committee Interdisciplinary Major with a focus in Comparative Ethnic Studies is also one of a handful of majors that requires an internship prior to graduation, thereby ensuring that students leave college with hands-on experience from the local community. The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

A certificate in Comparative Ethnic Studies is also available for students seeking something closer to a minor.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BA Degree Requirements (p. 873)</td>
<td>58-77</td>
</tr>
<tr>
<td></td>
<td>Major Requirements (p. 875)</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
<td>10-29</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within
five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
</tbody>
</table>

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

---

**College of Letters & Science Requirements**

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
ATM SCI 500  Statistical Methods in Atmospheric Sciences
BIO SCI 465  Biostatistics
ECON 210  Economic Statistics
GEOG 247  Quantitative Analysis in Geography
HIST 595  The Quantitative Analysis of Historical Data
MTHSTAT 215  Elementary Statistical Analysis
PHILOS 211  Elementary Logic
POL SCI 390  Political Data Analysis
POL SCI 392  Survey Research
PSYCH 210  Psychological Statistics
SOCIOL 261  Introduction to Statistical Thinking in Sociology

Note: This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**Code** | **Title** | **Credits**
---|---|---
Completed in one of the following ways:
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

### IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

**Code** | **Title** | **Credits**
---|---|---
Completed in one of the following ways:
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.
Complete 9 credits in combination of the two options above.

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/) designation, L&S students must complete the Breadth requirement.

**Code** | **Title** | **Credits**
---|---|---
**Arts**
Select 3 credits

**Humanities**
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *

**Social Sciences**
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *

**Natural Sciences**
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *

**Cultural Diversity**
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Major Requirements

The Committee Interdisciplinary Major submajor in Comparative Ethnic Studies requires completion of at least 33 credits in approved Comparative Ethnic Studies and Comparative Ethnic-related courses. Students may count towards the major a maximum of 9 credits in a
single curricular area outside of Comparative Ethnic Studies. A minimum of 18 credits must be completed in L&S courses, and at least 15 credits must be at the upper-division level (courses numbered 300 and above) taken in residence at UWM. Completion of the College’s research experience in the major is required. ETHNIC 550 or another suitable course approved by the coordinator satisfies this requirement. Students must attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, the College requires that students earn a 2.0 GPA on all credits in the major, including transfer work.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNIC 101</td>
<td>The Making of American Cultures: Africans, Europeans, and Indian Nations</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 275</td>
<td>Queer Migrations</td>
<td></td>
</tr>
<tr>
<td>ETHNIC 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>*** 150</td>
<td>Multicultural America</td>
<td></td>
</tr>
</tbody>
</table>

**Comparative Methods**
Select at least 3 credits from the following:  
- ETHNIC 275 Queer Migrations  
- ETHNIC 350 Advanced Topics in Comparative Ethnic Studies: (subtitle)  
- *** 150 Multicultural America

**Track Electives**
Select option A or B below

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNIC 489</td>
<td>Internship in Ethnic Studies, Upper Division</td>
<td>3</td>
</tr>
<tr>
<td>or HMONG 489</td>
<td>Internship in Hmong Studies, Upper Division</td>
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</tbody>
</table>

**Capstone**
ETHNIC 550 Senior Seminar in Comparative Ethnic Studies:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 203</td>
<td>Indigenous Religions</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 100</td>
<td>Black Reality: Survey of African-American Society</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 102</td>
<td>Survey of African-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 111</td>
<td>Introduction to African-American History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 112</td>
<td>Introduction to African-American History, 1865 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 125</td>
<td>Economics of the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 163</td>
<td>African-American Concept of Self</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 210</td>
<td>The African-American Novel</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 215</td>
<td>Introduction to Black Social and Cultural Traditions</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 235</td>
<td>African Americans and South Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 250</td>
<td>Black Women and White Women in the Contemporary United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 314</td>
<td>The School in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 319</td>
<td>African American Urban History</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 350</td>
<td>The Black Family</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 369</td>
<td>Black Images and Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 411</td>
<td>Change in African-American Communities</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 412</td>
<td>Blacks and the United States Constitution</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 416</td>
<td>Race and Social Justice in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 417</td>
<td>Race, Class and Gender in Southern Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 420</td>
<td>The Political Economy of Slavery</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 450</td>
<td>Cultural Transmissions: Black Africa and Black America</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 451</td>
<td>Rites of Passage in Black Societies</td>
<td>3</td>
</tr>
</tbody>
</table>

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**Approved Electives**

**Track Electives**

**A. Hmong Studies**

<table>
<thead>
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<th>Code</th>
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<tr>
<td>ETHNIC/HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
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<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies:</td>
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<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
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</tbody>
</table>

Select nine additional credits in consultation with the Program Coordinator

Total Credits  

**B. Student-Created Focus**
Students complete 18 credits selected in consultation with the coordinator from the list of approved courses.

---

1. Students may count a maximum of three courses from this group toward the major requirements.
2. Offered in the following curricular areas: Anthropology, Art, English, Film, History, Sociology, Urban Studies, Women’s and Gender Studies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
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<td>ANTHRO 225</td>
<td>The Aztec Empire</td>
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<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
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<tr>
<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
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<td>ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
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<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
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<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
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<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
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<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
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<td>ANTHRO 328</td>
<td>Comparative Studies of Music, Race, and Gender in Nationalism</td>
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<td>ANTHRO 335</td>
<td>American Indians of the Southeast</td>
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<td>Globalization, Culture, and Environment</td>
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<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
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<td>ANTHRO 442</td>
<td>Humanitarianism in Global Perspective</td>
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<td>Medicine and Pharmaceuticals in the Global Age</td>
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<td>The Global Politics of Human Rights</td>
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<td>Literatures and Cultures of the Americas</td>
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<td>Introduction to American Indian Literature</td>
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<td>Introduction to World Literatures Written in English</td>
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<td>Introduction to U.S. Latino/a Literature</td>
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<td>Modern Irish Language and Literature in Translation</td>
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<td>Survey of Asian American Literature</td>
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<td>Survey of African-American Literature to 1930</td>
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<td>Population, Environment, Development</td>
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<td>East Asian Civilization Since 1600</td>
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<td>Latin American Society and Culture</td>
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<td>The Twentieth Century: A Global History</td>
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<td>History of Capitalism</td>
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<td>History of Women in American Society</td>
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<td>Asian Americans in Historical Perspective</td>
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<td>The 1960s in the United States: A Cultural History</td>
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<td>The Jews of Modern Europe: History and Culture</td>
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<td>Germany: Hitler and the Nazi Dictatorship</td>
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<td>Buddhism: A Cultural History</td>
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<td>Africa: The Age of Empires to 1880</td>
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<td>Africa: Imperialism and Independence Since 1880</td>
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<td>History of Mexico</td>
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<td>History of Japan to 1600</td>
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<td>Ethnic America: To 1880</td>
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<td>Immigrant America Since 1880</td>
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<td>HIST 445</td>
<td>African Americans from Slavery to Freedom</td>
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<td>African Americans Since the Civil War</td>
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<td>The History of Poverty in America</td>
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<td>HIST 463</td>
<td>History of the American City</td>
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<td>HIST 468</td>
<td>The American Feminist Movement</td>
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<tr>
<td>HIST 473</td>
<td>History of Wisconsin Indians</td>
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Comparative Ethnic Studies, Undergraduate Certificate

HIST 474  Topics in North American Indian History  3
JAMS 111  Gender and the Media  3
JAMS 112  Global Media  3
JAMS 210  Jewish and Ethnic Narratives and Identities in Media  3
LINGUIS 430  Language and Society  3
LINGUIS 432  Urban Dialects  3
POL SCI 215  Ethnicity, Religion and Race in American Politics  3
POL SCI 388  Latino Politics  3
PSYCH 578  Psychology of Race, Ethnicity, and Health  3
SOCIO 233  Social Inequality in the United States  3
SOCIO 235  Social Change in the Global Economy  3
SOCIO 321  Contemporary Issues of the American Indian  3
SOCIO 323  Perspectives on Latino Communities  3
SOCIO 324  Race and Ethnicity in Global Contexts  3

Learning Outcomes
Students who complete the major will be able to do the following:

- Discuss the complexities of social identity for public policy as well as cultural formations;
- Provide interdisciplinary explanations for historical and contemporary conflicts based in race, ethnicity, gender, and sexuality; and
- Identify and assess different theoretical frameworks for explaining social change and relationships between actors, institutions, and ideas of identity.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Professor Rachel Buff, rbuff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-ethnic-studies/undergraduate/

Comparative Ethnic Studies, Undergraduate Certificate
Comparative Ethnic Studies is an interdisciplinary field that examines issues of social identity and power, in contemporary and historical contexts. The field centers on questions of race, gender, and sexuality. Students are free to select from a range of courses in the Ethnic Studies program, and to include coursework they do from around the university their academic programs. The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

Unique to UWM, our program offers courses covering the Hmong diaspora. Wisconsin is home to the third largest Hmong American population in the U.S., making UWM a great place to learn about this population.

The Undergraduate Certificate program in Comparative Ethnic Studies is also available for students seeking something closer to a minor. Certificates are similar to minors in terms of credit requirements but draw
on coursework from multiple fields of study rather than from a single department.

**Eligibility**

The Certificate in Comparative Ethnic Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

**Requirements**

To receive the certificate, the student must earn a minimum of 21 credits as stated below, at least 12 from UWM, with a grade point average of 2.750 or better. A minimum of 9 credits must be earned in upper-division (numbered 300 and above) courses. At least 18 credits must be taken in the Ethnic curricular area; the other 3 credits may be selected from the approved list of elective courses. Students may discuss their specific needs and programs of study with the program coordinator, Rachel Buff. Substitutions for credits in the Ethnic curricular area are subject to the approval of the Program Coordinator.

Students interested in the undergraduate certificate should register with the Comparative Ethnic Studies Program Coordinator by the beginning of their junior year, at the latest.

Courses for the certificate must include the following:

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<tr>
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<th>Credits</th>
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<tr>
<td>ETHNIC 101</td>
<td>The Making of American Cultures: Africans, Europeans, and Indian Nations</td>
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<tr>
<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
<td>3</td>
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<tr>
<td>ETHNIC 550</td>
<td>Senior Seminar in Comparative Ethnic Studies:</td>
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**Electives**

Select 12 credits from approved electives table below.

Total Credits 21

**Approved Electives**

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<tr>
<td>AFRIC 100</td>
<td>Black Reality: Survey of African-American Society</td>
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<tr>
<td>AFRIC 102</td>
<td>Survey of African-American Literature</td>
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<td>Introduction to African-American History to 1865</td>
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<td>AFRIC 112</td>
<td>Introduction to African-American History, 1865 to the Present</td>
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<td>AFRIC 125</td>
<td>Economics of the Black Community</td>
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<tr>
<td>AFRIC 163</td>
<td>African-American Concept of Self</td>
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<td>AFRIC 210</td>
<td>The African-American Novel</td>
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<td>AFRIC 228</td>
<td>Introduction to Black Political Economy</td>
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<td>Black Women and White Women in the Contemporary United States</td>
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<td>Survey of African-American Political Philosophy</td>
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<td>Psychological Effects of Racism</td>
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<td>Urban Violence</td>
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<td>The Church in African-American Life</td>
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<td>The School in African-American Life</td>
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<td>African American Urban History</td>
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<td>Black Workers in the 21st Century</td>
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<td>Order and Disorder: The Quest for Social Justice</td>
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<td>Economic Problems of Black Business</td>
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<td>Black Politics and City Government</td>
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<td>African-American Literary Movements: The Harlem Renaissance</td>
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<td>Blacks and the United States</td>
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<td>Race and Social Justice in the United States</td>
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<td>North American Indian History Since 1887</td>
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<td>Introduction to American Indian Literature:</td>
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<td>American Indian Societies and Cultures</td>
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<td>Contemporary Issues of the American Indian</td>
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<td>Survey of American Indian Literature</td>
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<td>History of Wisconsin Indians</td>
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<td>Topics in North American Indian History:</td>
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<td>American Indian Societies and Cultures</td>
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Hmong Diaspora Studies, Undergraduate Certificate

The Hmong Diaspora Studies undergraduate certificate program provides students with a multidisciplinary perspective on Hmong history, culture, and contemporary life.

Wisconsin and the upper Midwest are home to large concentrations of Hmong Americans, making this area of study particularly relevant to UWM students. Political unrest and international wars forced many Hmong from Laos to leave their native land during the last quarter of the twentieth century and seek refuge in foreign nations. Hmong populations can now be found throughout the Americas, Asia, Europe, and Oceania. Each area has its own distinct social, cultural, economic, and political conditions.

The certificate program includes courses about Hmong history, language, and culture, as well as classes that discuss the societal differences encountered by Hmong people. The certificate complements many different types of majors and is valuable for individuals who intend to work with the Hmong population in careers such as social work, education, public administration, law, journalism, international affairs, travel and hospitality, and global business.

UWM students have in recent years traveled to Laos, Thailand, and Vietnam to complement their classroom experience with a study abroad trip.

Contact Information
Current Students contact Professor Rachel Buff, rbuff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-ethnic-studies/undergraduate/certificate/
Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Hmong Diaspora Studies Undergraduate Certificate is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted as a non-degree student, the individual must meet regular UWM admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students will receive the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved Hmong diaspora studies courses as indicated below. Of the 18 required credits, 12 must be taken in the College of Letters and Science, and at least six of them should be at the 300 level or above. No more than nine credits from any one curricular area may count toward the certificate. Twelve of the 18 required credits must be earned in residence at UWM. Of these 12 credits, nine must be taken at the 300 level or above. A maximum of six credits in independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on Hmong cultural groups may be accepted with the approval of the certificate program committee. Other courses that are not on the lists below but relevant to the study of Hmong people in the US and other parts of the world may be accepted with the approval of the certificate program committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements with the approval of the certificate program committee. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the creation of the program may have their credits applied retroactively to the certificate program.

### Approved Elective Courses

#### Primary Focus on Hmong Cultural Groups

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 192</td>
<td>First-Year Seminar: (Hmong American Life Stories)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature: (Hmong-American Literature)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: (Hmong Diasporic Communities)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 299</td>
<td>Ad Hoc: (with Hmong-related subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>ETHNIC 499</td>
<td>Ad Hoc: (with Hmong-related subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>ETHNIC 699</td>
<td>Advanced Independent Work</td>
<td>1-3</td>
</tr>
<tr>
<td>FLL 103</td>
<td>First Semester of an Uncommonly-Taught Language: (Hmong)</td>
<td>1-4</td>
</tr>
<tr>
<td>FLL 104</td>
<td>Second Semester of an Uncommonly-Taught Language: (Hmong)</td>
<td>3-4</td>
</tr>
<tr>
<td>FLL 203</td>
<td>Third Semester of an Uncommonly-Taught Language: (Hmong)</td>
<td>3-4</td>
</tr>
<tr>
<td>FLL 204</td>
<td>Fourth Semester of an Uncommonly-Taught Language: (Hmong)</td>
<td>3-4</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Study Abroad: (Exploring Laos – History and Culture)</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China (Exploring Laos – History and Culture)</td>
<td>3</td>
</tr>
<tr>
<td>HMONG XXX</td>
<td>All courses in the Hmong curricular area</td>
<td></td>
</tr>
</tbody>
</table>

#### Secondary Focus on Hmong Cultural Groups

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 150</td>
<td>Multicultural America ¹</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 250</td>
<td>Women's Roles in Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 386</td>
<td>Art, Ritual, and Ethnicity of China</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 150</td>
<td>Multicultural America ¹</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 192</td>
<td>First-Year Seminar: (Southeast Asian American Life Stories)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 150</td>
<td>Multicultural America ¹</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History: (with appropriate subtitle) (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 150</td>
<td>Multicultural America ¹</td>
<td>3</td>
</tr>
<tr>
<td>WGS 150</td>
<td>Multicultural America ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

1 At least 6 of which must be selected from courses with a primary focus on Hmong cultural groups.
The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and historically significant film and television, and take part in major festivals and symposia, most recently devoted to contemporary Asian cinema, Latin American and Caribbean film and culture, and global media and technology.

Eligibility
The program is open to all students seeking a bachelor’s degree from UWM, to students who previously earned a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

Requirements
To obtain the certificate, the student must complete, with a minimum grade point average of 2.25, a minimum of 19 credits in approved BMFS courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science, and nine credits must be taken in the Lubar School of Business. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s

1 Students may count credits in just one of these courses toward the certificate.

Contact Information
Current Students contact Professor Chia Vang, vangcy@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/film-studies/

Film Studies
The College of Letters and Science offers a unique major and minor in Film Studies. Our interdisciplinary programs are founded on a broad, international perspective on film, television, popular culture, and media forms, texts, and global industries.

After completing the required introductory courses in history, formal analysis, and theory, film studies students explore a variety of advanced topics including world cinema, the internet and media culture, theories of mass culture, film and literature, writing on film and television, classical and contemporary film theory, television criticism and theory, film genres, and other special topic courses to suit their interests and concentrations.

In addition to courses stressing cultural, historical, and theoretical approaches, students can take advantage of a range of resources and opportunities to explore and deepen their understanding of contemporary and historically significant film and television, and take part in major festivals and symposia, most recently devoted to contemporary Asian cinema, Latin American and Caribbean film and culture, and global media and technology.

Programs
• Business of Media and Film Studies, Undergraduate Certificate
  (College of Letters and Science, Department of Film Studies)
  (p. 882)
• Film Studies, BA (p. 883)
• Film Studies, Minor (p. 887)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gilberto Blasini</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zach Finch</td>
<td>Associate Lect.</td>
<td>PhD</td>
<td>University of Wisconsin, Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Paik</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jocelyn Szczepaniak-Gillece</td>
<td>Assistant Prof.</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tami Williams</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Zach Finch, Academic Advisor
CURTIN, 472
z Finch@uw m.edu

http://uwm.edu/film-studies (http://uwm.edu/film-studies/)

Business of Media and Film Studies, Undergraduate Certificate (College of Letters and Science, Department of Film Studies)

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an
approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting Management</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (Business on Film)</td>
<td>3</td>
</tr>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 397</td>
<td>Marketing Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 461</td>
<td>Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
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<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar:</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Cinema and Digital Culture)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 393</td>
<td>Entertainment Industries:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 19

**Contact Information**

Zach Finch, Academic Advisor  
CURTIN, 472  
zfinch@uwm.edu

http://www.uwm.edu/film-studies (http://www.uwm.edu/film-studies/)

**Film Studies, BA**

The Department of Film Studies’ BA program focuses on the history, theory and criticism of film and television. Students learn how to critically analyze the impact of film and television on individuals and society; make connections between media, historical themes and cultural change; and compare different formats. Film and media cross time periods and locations, languages and cultures. The courses that a well-rounded Film Studies student will take are equally as diverse. The major blends courses in Film Studies with classes from English, Art History, Comparative Literature, History, Religious Studies, French, Italian, Japanese, and other languages. UWM students have the advantage of being in the heart of the largest city in Wisconsin, home to a lively art house movie scene, a growing independent film industry, and a thriving cinematic culture.

Students who are more interested in film and video production process and who are looking to become a filmmaker or videographer may wish to also explore the majors offered through UWM’s Peck School of the Arts.

Additional courses that count toward the major are offered by the following departments in the College of Letters and Science:

- Art History
- English
- Foreign Languages and Linguistics
- French, Italian, and Comparative Literature
- Journalism, Advertising, and Media Studies

Lower division film production courses are offered by the Peck School of the Arts’ Film Department, and may count towards a student’s elective course requirements.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
</tbody>
</table>
or PHILOS 111  Introduction to Logic - Critical Reasoning

MATH 116  College Algebra

or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language

or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is \textbf{NOT} the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.
** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Students must complete the requirements specified below.

**Film Studies Major Requirements**

A total of 36 credits is required for the major, at least 18 in upper-level courses (numbered 300 or above), with at least 15 of them taken in residence at UWM. Students must attain a 2.0 GPA on all UWM credits attempted for the major. Students must attain a 2.0 GPA in all credits in the major attempted at UWM. In addition, the College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Intermediate-Level Requirement**

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST/FILMSTD 205</td>
<td>History of Film I: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 390</td>
<td>Classical Film Criticism and Theory (offered fall semester only)</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 690</td>
<td>Seminar in Contemporary Cinema and Media: (satisfies L&amp;S research requirement; offered spring semester only)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core**

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART/ENGLISH/ FILMSTD 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
<td>6</td>
</tr>
<tr>
<td>ART/ENGLISH/ FILMSTD 206</td>
<td>History of Film II: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 286</td>
<td>Writing about Film and Television</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 293</td>
<td>Literature and Media:</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 credits in a course with Cultural Diversity (CD) designation.

- Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.
Courses, the Film Studies website, or the program advisor. Classes to count toward the major. See the list published in the appropriate subtitles may be approved on a semester-by-semester basis.

### Advanced-Level Electives

Select 6 credits from the following (focusing on world/global/international cinema):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 294</td>
<td>Game Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts 1</td>
<td>3</td>
</tr>
<tr>
<td>FILM 203</td>
<td>Media Workshop: 1</td>
<td>3</td>
</tr>
<tr>
<td>FILM 220</td>
<td>16mm Filmmaking II 1</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 299</td>
<td>Ad Hoc:</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 229</td>
<td>Italian Cinema</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 additional credits (see below)

Or other appropriate courses approved by the Director

Total Credits 36

1 A maximum of 3 credits in Film Department courses (FILM) may count toward the intermediate-level course requirement.

### Advanced-Level Electives

The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the Schedule of Classes (http://www4.uwm.edu/schedule/) under affiliated Film Studies courses, the Film Studies website, or the program advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST/FILMSTD 308</td>
<td>Film Styles:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (New Chinese Cinemas)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 461</td>
<td>Film-Fiction Interaction:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 316</td>
<td>World Cinema:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 320</td>
<td>Studies in Film Authorship:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 329</td>
<td>Film and Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 383</td>
<td>Cinema and Genre</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 393</td>
<td>Entertainment Industries:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television:</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization:</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 489</td>
<td>Internship in Film Studies, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>FILMSTD 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality:</td>
<td>3</td>
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<tr>
<td>FILMSTD 699</td>
<td>Independent Work</td>
<td>1-3</td>
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<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World:</td>
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<tr>
<td>ITALIAN 629</td>
<td>Major Film Directors:</td>
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<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture 1</td>
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</tr>
<tr>
<td>JAMS 620</td>
<td>Seminar in Global Media 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science-advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Film Studies majors who have maintained at least a 3.500 GPA in courses for the major, a 3.500 GPA on all advanced (300-level and above) courses in the major, and a 3.000 GPA overall on all UWM courses attempted may apply to the Film Studies undergraduate advisor to graduate with "Honors in the Major."

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Lecturer Zachary Finch at zfinch@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/film-studies/our-people/
http://uwm.edu/film-studies/ (http://uwm.edu/film-studies/)

Film Studies, Minor
Our Film Studies program focuses on the history, theory and criticism of film and television. Students learn how to critically analyze the impact of film and television on individuals and society; make connections between media, historical themes and cultural change; and compare different formats.

Film and media cross time periods and locations, languages and cultures. The courses that a well-rounded Film Studies student will take are equally diverse. The major blends courses in Film Studies with classes from English, Art History, Comparative Literature, History, Religious Studies, French, Italian, Japanese, and other languages.

UWM students have the advantage of being in the heart of the largest city in Wisconsin, home to a lively art house movie scene, a growing independent film industry, and a thriving cinematic culture.

Students who are more interested in film and video production process and who are looking to become a filmmaker or videographer may wish to also explore the majors and minors offered through UWM's Peck School of the Arts.

Requirements
To complete the minor, students are required to take 18 credits of Film Studies Program approved courses. Students must attain a 2.0 GPA in UWM credits attempted for the minor. In addition, the College requires that students attain a 2.0 GPA in all minor credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
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<tr>
<td>ENGLISH/FILMSTD 286</td>
<td>Literature and Media</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 294</td>
<td>Game Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
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<td>FILM 203</td>
<td>Media Workshop:</td>
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<td>FILM 220</td>
<td>16mm Filmmaking II</td>
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</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies:</td>
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<tr>
<td>FILMSTD 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>ITALIAN 229</td>
<td>Italian Cinema</td>
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<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
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Advanced-Level Electives

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARTHIST/FILMSTD 307</td>
<td>Film Directors:</td>
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<td>ARTHIST/FILMSTD 308</td>
<td>Film Styles:</td>
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<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (New Chinese Cinemas)</td>
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<td>COMPLIT 461</td>
<td>Film-Fiction Interaction:</td>
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<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies:</td>
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<td>Studies in Film Authorship:</td>
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<td>Film and Literature</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society:</td>
<td>3</td>
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<tr>
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<td>Entertainment Industries:</td>
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<td>Theories of Mass Culture:</td>
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<td>Global Jewish Film and Television:</td>
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<td>Internship in Film Studies, Upper Division</td>
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</tr>
<tr>
<td>FILMSTD 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
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</tbody>
</table>
Food & Beverage Studies

Food Studies is for any student working in or studying a topic that has a relationship to food - agriculture, food distribution, social work, maternal and infant health, economic and political stability, peacebuilding, transportation, conservation, global health, and many more. UWM's program does not focus on food preparation or culinary arts but provides value for individuals in food service who want to understand the impact of food and nutrition in our society and in places around the globe.

Students take courses in nutrition and health sciences to explore the effects of food on our physical and mental well-being and to develop responsible and sustainable practices, promote cross-cultural understanding, and help people in disparate professions or academic fields understand the relationships the study of food has with their own specializations.

The program is administered by an advisory committee composed of faculty members from both the College of Letters and Science and the College of Health Sciences.

The interdisciplinary undergraduate certificate program in Food Studies explores the many facets of food, from the field and sea to the table, through the lenses of the arts, humanities, and natural and social sciences. Combining courses in the Liberal Arts and Health Sciences, it addresses the production and consumption of food and its symbolic and ideological meanings, across cultures and over time, from the beginning of agriculture to globalization.

Eligibility

The Certificate in Food Studies is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular University admission requirements. The Certificate is awarded jointly by the College of Health Sciences and the College of Letters and Science.

Students concurrently enrolled in a degree program who successfully complete the certificate program requirements will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon completion of the program requirements. Graduate students are eligible to pursue the Food Studies certificate concurrently with their graduate studies, and they will be awarded the certificate upon completion of the program requirements.

Requirements

To earn the certificate, students must complete 18 credits in approved Food Studies courses, with a minimum grade point average of 2.500, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FOODBV 101</td>
<td>Introduction to Food Studies (with a grade of C or better)</td>
<td>3</td>
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</table>

Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences, and at least one course in natural or health sciences, nursing, or engineering.

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>FOODBV 699</td>
<td>Advanced Independent Study</td>
<td>3</td>
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</tbody>
</table>

A senior research or capstone course offered by another program and approved as a Food Studies content course

Total Credits 18

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and at least 9 credits must be taken in residence at UWM. No more than 9 credits in one
curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

**Approved Electives**

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>ANTHRO 156</td>
<td>Food and Culture</td>
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<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
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<tr>
<td>BMS 232</td>
<td>Introduction to Nutrition</td>
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<tr>
<td>BMS 290</td>
<td>Topics in Health Sciences: ¹</td>
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<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
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<tr>
<td>BMS 590</td>
<td>Topics in Clinical Laboratory Sciences:</td>
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<tr>
<td>CES 571</td>
<td>Practical Approaches to a Sustainable Future</td>
<td>3</td>
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<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
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<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (Discovering Food)</td>
<td>3</td>
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<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Cuisine, Community, and Literature)</td>
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</tr>
<tr>
<td>COMPLIT 461</td>
<td>Film-Fiction Interaction: (Global Food Narratives)</td>
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<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts: (Eating English Literature)</td>
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<tr>
<td>ENGLISH 625</td>
<td>Seminar in Literary History: (Eating English Literature)</td>
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<tr>
<td>FOODBEV 102</td>
<td>Taste: The Culture and Science of Fermentation</td>
<td>3</td>
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<tr>
<td>FOODBEV 199</td>
<td>Independent Study</td>
<td>1-3</td>
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<tr>
<td>FOODBEV 289</td>
<td>Internship in Food Studies, Lower Division</td>
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<tr>
<td>FOODBEV 297</td>
<td>Study Abroad:</td>
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<tr>
<td>FOODBEV 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 489</td>
<td>Internship in Food Studies, Upper Division</td>
<td>1-3</td>
</tr>
<tr>
<td>FOODBEV 497</td>
<td>Study Abroad:</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>FRENCH 145</td>
<td>Views of France: (Learning French Culture Through Cuisine)</td>
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<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (Cuisines et Cultures Françaises)</td>
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<tr>
<td>GERMANY 145</td>
<td>Views of Germany: (Beer, Bread, and Brats)</td>
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<td>HIST 600</td>
<td>Seminar in History</td>
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<tr>
<td>ITALIAN 256</td>
<td>Introduction to Italian Food Studies: A Cultural History</td>
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<td>ITALIAN 456</td>
<td>Topics in Italian Food Studies:</td>
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<tr>
<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 299</td>
<td>Ad Hoc: (Exploring Israel's Culture, Food, History, and Language)</td>
<td>1-6</td>
</tr>
<tr>
<td>KIN 290</td>
<td>Special Topics in Human Movement Sciences: (Nutrition for the Health Professionals)</td>
<td>1-3</td>
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<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>RELIGST 350</td>
<td>Advanced Topics in Religious Studies: (Religion in Daily Life: Food, Drink, and Clothing)</td>
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<tr>
<td>SPANISH 225</td>
<td>Understanding the Hispanic World: (&quot;Food and Culture: Beyond Tacos and Paella&quot; subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 360</td>
<td>Perspectives on the Urban Scene: (You Are Where You Eat: Urban Food Geographies)</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ The following subtitled topics courses may be used towards the Undergraduate Certificate in Food Studies: *Introduction to Food Principles and Preparation or Life Cycle Nutrition.*

² The following subtitled topics courses may be used towards the Undergraduate Certificate in Food Studies: *Food, Culture, and Power or Food and the City.*

**Contact Information**

Current Students contact Associate Professor Lawrence Kuiper, kuiper@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Food+Studies

**Foreign Languages and Literature**

The Department of Foreign Languages and Literature, formed in 1996, teaches modern and ancient languages, their literature, and the linguistic and philological study of these languages. The broad departmental structure encourages the development of cross-disciplinary academic undertakings.

The University's Foreign Language course requirements may be satisfied through coursework in the following curricular areas:

**Arabic**

Arabic courses may be of particular interest to students in the Certificate in Middle Eastern and North African Studies, the International Studies major, the Linguistics major, and the Global Studies degree program. A minor in Arabic is also offered.

**Chinese**

Courses in Chinese also may be of interest to students pursuing the Asian Studies Certificate, the International Studies major, and the Bachelor of Arts in Global Studies. A Chinese major can be completed through the Committee Interdisciplinary major; a Chinese minor is also available.
Classics

The Classics program offers instruction in the ancient Greek and classical Latin languages and literature and in the civilizations of Greece and Rome. Courses offered in the area of classical civilization do not require a knowledge of Greek or Latin.

Students planning to pursue graduate study in classics and related disciplines, or teaching certification in Latin, should consult with the Classics Program coordinator early in their undergraduate career. Students interested in a Classics major may also want to consider the Ancient Mediterranean Studies Certificate.

German

Students who have had no previous training in German should enroll in German 101. Those who have studied German in high school should take the placement exam in German, administered by the Testing Center, before enrolling; the exam is required for those who have had two or more years of high school German. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination. Both a German major and a minor are available.

Hebrew

A four-semester sequence in Hebrew is offered by the department. All courses are available online. There is also an accompanying Jewish Studies program offered by the College of Letters and Science.

Japanese

Courses in Japanese may be of interest to students pursuing the Asian Studies certificate, the International Studies major, and the Bachelor of Arts in Global Studies. A Japanese major can be completed through the Committee Interdisciplinary major; a minor is also available.

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel Baum</td>
<td>Senior Lecturer (Hebrew/Jewish Studies)</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yael Ben-Yitschak</td>
<td>Lecturer (Hebrew/Jewish Studies)</td>
<td>BA</td>
<td>University of Haifa, Israel</td>
<td></td>
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</tr>
<tr>
<td>Joel Berkowitz</td>
<td>Professor (Hebrew/Jewish Studies)</td>
<td>PhD</td>
<td>City University of New York</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viktorija Bilic</td>
<td>Associate Professor (German and Translation)</td>
<td>PhD</td>
<td>Heidelberg University, Germany</td>
<td></td>
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</tr>
<tr>
<td>Jocelyn Boor</td>
<td>Lecturer (Classics)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lixin Cai</td>
<td>Lecturer (Chinese)</td>
<td>MBA</td>
<td>Concordia University</td>
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</tr>
<tr>
<td>Renee Calkins</td>
<td>Visiting Assistant Professor (Classics)</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
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<tr>
<td>Jue Chen</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Princeton University</td>
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<tr>
<td>Justin Court</td>
<td>Lecturer (German)</td>
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<td>University of Wisconsin-Madison</td>
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<tr>
<td>Elisabetta Cova</td>
<td>Associate Professor (Classics)</td>
<td>PM</td>
<td>University of Cambridge, U.K</td>
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<tr>
<td>Garry W. Davis</td>
<td>Professor (Department of Linguistics, German)</td>
<td>PhD</td>
<td>University of Michigan</td>
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<td>Nina Familiant</td>
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<td>University of Wisconsin, Madison</td>
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<tr>
<td>Name</td>
<td>Title (Department, Language)</td>
<td>Degree</td>
<td>Institution</td>
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<tr>
<td>Katherina P. Filips-Juswigg</td>
<td>Professor (Slavic Languages)</td>
<td>PhD</td>
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<tr>
<td>Bernard J. Grossfeld</td>
<td>Professor (Hebrew Studies)</td>
<td>PhD</td>
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</tr>
<tr>
<td>Robert A. Jones</td>
<td>Professor (German)</td>
<td>PhD</td>
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<tr>
<td>John Kellogg</td>
<td>Lecturer (German)</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Khuloud Labanieh</td>
<td>Lecturer (Education, Arabic)</td>
<td>MA</td>
<td>Cardinal Stritch University</td>
<td></td>
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</tr>
<tr>
<td>Masako Lackey</td>
<td>Senior Lecturer (Applied Linguistics, Japanese)</td>
<td>MA</td>
<td>University of Wisconsin, Madison</td>
<td></td>
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</tr>
<tr>
<td>Sooyeon Lee</td>
<td>Lecturer (Linguistics, Korean)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee, Coordinator, Korean</td>
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</tr>
<tr>
<td>Veronica Lundback</td>
<td>Senior Lecturer (Classics)</td>
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</tr>
<tr>
<td>Dana Margolis</td>
<td>Senior Lecturer (Hebrew Studies)</td>
<td>MSCRIP</td>
<td>University of Texas - Austin</td>
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<tr>
<td>Fahed Masalkhi</td>
<td>Lecturer (Arabic)</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Karolina May-Chu</td>
<td>Assistant Professor (German)</td>
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<tr>
<td>Yair Mazor</td>
<td>Professor (Hebrew Studies)</td>
<td>PhD</td>
<td>Tel Aviv University</td>
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</tr>
<tr>
<td>Michael J. Mikos</td>
<td>Professor (Polish, Slavic Languages)</td>
<td>PhD</td>
<td>Brown University</td>
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<tr>
<td>Richard C. Monti</td>
<td>Professor (Classics)</td>
<td>PhD</td>
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<tr>
<td>Kevin Mulholland</td>
<td>Visiting Assistant Professor (Japanese)</td>
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<td>University of Michigan</td>
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<tr>
<td>David D. Mulroy</td>
<td>Professor (Classics)</td>
<td>PhD</td>
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<tr>
<td>Meghan Murphy-Lee</td>
<td>Senior Lecturer (Russian)</td>
<td>PhD</td>
<td>University of Kansas</td>
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<tr>
<td>Kevin Muse</td>
<td>Associate Professor (Classics)</td>
<td>PhD</td>
<td>University of North Carolina at Chapel Hill</td>
<td></td>
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</tr>
<tr>
<td>Hamid Ouali</td>
<td>Associate Professor (Department of Linguistics, Arabic)</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Joseph Peschio</td>
<td>Associate Professor (Russian)</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Roger W. Philips</td>
<td>Associate Professor (Slavic Languages)</td>
<td>PhD</td>
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<tr>
<td>Andrew Porter</td>
<td>Associate Professor (Classics)</td>
<td>PhD</td>
<td>University of Missouri - Columbia</td>
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<tr>
<td>Aragorn Quinn</td>
<td>Assistant Professor (Japanese)</td>
<td>PhD</td>
<td>Stanford University</td>
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<tr>
<td>Robert C. Ross</td>
<td>Associate Professor (Classics)</td>
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<tr>
<td>Ruth Schwertfeger</td>
<td>Professor (German)</td>
<td>PhD</td>
<td></td>
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<tr>
<td>H. James Shey</td>
<td>Associate Professor (Classics)</td>
<td>PhD</td>
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<td></td>
</tr>
<tr>
<td>Sooho Song</td>
<td>Assistant Professor (Foreign Languages and Literature, Korean)</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Roy Arthur Swanson</td>
<td>Professor (Comparative Literature, Classics)</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Shinji Takahashi</td>
<td>Lecturer (Curriculum and Instruction, Japanese)</td>
<td>MS</td>
<td>University of Wisconsin - Madison</td>
<td></td>
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<tr>
<td>Thu Anh Than</td>
<td>Lecturer (German)</td>
<td></td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Bozena Tieszen</td>
<td>Senior Lecturer (Classics and German)</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Charles A. Ward</td>
<td>Professor (Slavic Languages)</td>
<td>PhD</td>
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</tbody>
</table>
Arabic, Minor

Arabic is one of the main languages of the Middle East. Its influence is felt in related languages and dialects such as Urdu and Kurdish, it is the language of the Quran, and is the fifth most common language with more than 375 million native speakers. Westerners with Arabic fluency are in high demand as the global influence of the Middle East continues to grow.

The Department of Foreign Languages and Literature offers six semesters of instruction in Arabic language leading to a minor.

Arabic courses may be of particular interest to students in the certificate in Middle Eastern and North African studies, the international studies major, the linguistics major, and the global studies degree program.

The U.S. State Department includes Arabic in its scholarship and training program for critically-needed languages.

Requirements

Retro credits earned at the 200-level or above may count toward the minor. Students who begin their Arabic studies in higher-level courses may need to take additional credits, approved by the Arabic language coordinator, to reach a minimum of 18 credits in Arabic.

A minimum of nine credits must be taken at the 300-level or above in residence at UWM. The College requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Students entering with no previous Arabic language experience should enroll in ARABIC 101. Students entering with previous language experience may need to take additional credits, approved by the Arabic language coordinator, to reach a minimum of 18 credits in Arabic.

The minor in Arabic consists of a minimum of 18 credits, with the following courses (or equivalents) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARABIC 201</td>
<td>Third Semester Arabic</td>
<td>5</td>
</tr>
<tr>
<td>ARABIC 202</td>
<td>Fourth Semester Arabic</td>
<td>5</td>
</tr>
<tr>
<td>ARABIC 301</td>
<td>Fifth Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>ARABIC 302</td>
<td>Sixth Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following: 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARABIC 489</td>
<td>Internship in Arabic, Upper Division</td>
<td>3</td>
</tr>
<tr>
<td>ARABIC 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ARABIC 499</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

1 Or an upper-level culture course, at least 3 credits, approved by the Arabic Program Coordinator.

Business German, Minor

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State's German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

A general minor in German is available, and there is a minor in Business German. The Business German minor is ideal for students interested in German business concepts, perhaps in preparation for an international business career. In addition to German language and culture classes, students take accounting or marketing classes from UWM's Lubar School of Business.

Students are encouraged to participate in UWM's well-established study abroad program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students...
engage in study abroad during the second half of sophomore year or during their junior year.

**Requirements**

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing a Certificate in Business German offered by the Goethe Institut. For further information, consult the German Program Coordinator.

The business German minor consists of a minimum of 21 credits. At least 12 of these credits must be at the 300 level or above and taken in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>GERMAN 204</td>
<td>German In Your Field and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 331</td>
<td>German Grammar in Practice</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332</td>
<td>Presentation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following</td>
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<tr>
<td>GERMAN 333</td>
<td>Texts and Contexts</td>
<td></td>
</tr>
<tr>
<td>GERMAN 334</td>
<td>Introduction to German Studies</td>
<td></td>
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<tr>
<td>Select one of the following</td>
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<td>3</td>
</tr>
<tr>
<td>GERMAN 360</td>
<td>German for the Global World</td>
<td></td>
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<tr>
<td>GERMAN 474</td>
<td>German for Professional Purposes</td>
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<tr>
<td>GERMAN 489</td>
<td>Internship in German, Upper Division</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following</td>
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<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
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<td>BUS ADM 330</td>
<td>Organizations</td>
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</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

**Contact Information**

Current Students contact Associate Professor Jonathan Wipplinger, wippling@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/german/undergraduate/minor/minor-business-german/

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**Chinese, Minor**

Each year more and more students are joining the ranks of the 1.4 billion people who speak Mandarin, the official language of the People’s Republic of China and of Taiwan. Many students now can find Chinese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Chinese language instruction. We offer eight semesters of Chinese language, and equally as important, we offer an array of classes on Chinese culture. Students can explore classes in Chinese art, Chinese film, the use of Chinese in business settings, Chinese and Asian history, and the politics and religions of the region. While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Chinese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

The Chinese minor is ideal for students looking to gain a competitive advantage in the job market by combining Chinese language skills with their primary major. Students in the Chinese minor take a series of intermediate level language courses and must complete at least one additional elective course.

Students are encouraged to participate in UWM’s well-established study abroad (http://uwm.edu/cie/study-abroad/) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

**Requirements**

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The minor in Chinese consists of 21 credits distributed as follows:

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHINESE 201</td>
<td>Third Semester Chinese</td>
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</tr>
<tr>
<td>CHINESE 202</td>
<td>Fourth Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following</td>
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<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
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<tr>
<td>CHINESE 343</td>
<td>Chinese Martial Arts Fiction</td>
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<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
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<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
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</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
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<tr>
<td>CHINESE 497</td>
<td>Study Abroad:</td>
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</tr>
<tr>
<td>CHINESE 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

**Contact Information**

Current Students contact Jue Chen (chen348@uwm.edu) or, Lixin Cai (cai@uwm.edu)
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/chinese/undergraduate/

**Classics, BA**

Classics is the study of the literature, languages, cultures and societies of ancient Greece and Rome. It is one of the oldest of the liberal arts disciplines.

The popularity of movies like 300, Gladiator, and Troy, have renewed students’ interest in mythology and the study of classics.
Whether you choose to major in Classics or just take a few classes of interest, students in this field are exposed to the history, literature, art and architecture, archaeology, language, and religion of ancient times. Many classes are in English but some offer the subject matter in its original format of Greek or Latin. Many pre-med majors also find that an introduction to Latin vocabulary serves as an exceptional preparation for medical school where much of the terminology originated from Latin.

What can you do with a Classics major? Classics is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, and oral and written communication. Law school is a popular destination after college, though certainly not the only option. A student’s career choices after college will be guided by how they applied their coursework to real world applications during college. A student who volunteered and interned in museums and galleries may find work in that industry. A student who obtained work experience during college in library reference may pursue that line of work after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>Part A</td>
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<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<tr>
<td>Part B</td>
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<td></td>
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<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
<th>Achieve a grade of C or better in one of the following:</th>
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<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning ³</td>
</tr>
</tbody>
</table>

or PHILOS 111 Introduction to Logic - Critical Reasoning

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to ENGLISH 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement.
Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
</tbody>
</table>

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.
Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

**VII. The Minor**
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Major Requirements**
There are three major concentrations:

- Classical Civilization
- Ancient Greek Language and Literature
- Classical Latin Language and Literature

Students who major in a Classics Program concentration must complete at least 15 credits of the major in 300-level or above courses in residence at UWM. All students must complete a research experience in their major. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM, including any transfer work.

**Classical Civilization Major Concentration**
This Concentration is intended for students who wish to study classical literature and culture without pursuing coursework in the original languages. Courses in ancient Greek and Latin are optional and may count toward fulfilling major requirements.

Completion of the major requires a minimum of 33 credits distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSIC 170</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 additional credits in Classic (not Greek or Latin) courses at the 300 level or above

**Electives**
For the remaining credits, students may choose from among any Classic, Greek, or Latin courses. Up to 6 credits of these elective courses may include approved courses in related disciplines (see list of approved courses below). A minimum of 15 credits in all courses taken for the major must be taken at the 300 level or above. Students must complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 312</td>
<td>Minoan and Mycenae Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 313</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 314</td>
<td>Art and Archaeology of the Ancient Near East</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 316</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 413</td>
<td>Greek Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC/HIST 274</td>
<td>Ancient Egyptian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (Paganism in the Ancient World)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History: (Rome in the Age of Constantine ~ Society and Culture)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: (Pagans and Christians in the Roman Empire or Medicine and Healing in Ancient Greece and Rome)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 551</td>
<td>Aristotle</td>
<td>3</td>
</tr>
</tbody>
</table>

**Ancient Greek Language and Literature Major Concentration**
The Ancient Greek Language and Literature major concentration requires the completion of 33 credits, including the following. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Greek or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEK 103</td>
<td>First Semester Greek</td>
<td>4</td>
</tr>
</tbody>
</table>
Classical Latin Language and Literature Major Concentration

The Classical Latin Language and Literature concentration requires the completion of 33 credits, including the following. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Latin or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select four additional courses in Latin courses at the 300 level or above 12
Select six additional credits chosen from Latin, Greek, and/or Classic courses 6
Total Credits 33

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

The Undergraduate Faculty Advisor for Classics is Associate Professor Elisabetta Cova, covae@uwm.edu.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Elisabetta Cova, covae@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at let-sci@uwm.edu or (414) 229-7711
https://uwm.edu/foreign-languages-literature/undergraduate/classics/

Classics, Minor

Classics is the study of the literature, languages, cultures and societies of ancient Greece and Rome. It is one of the oldest of the liberal arts disciplines.

The popularity of movies like 300, Gladiator, and Troy, have renewed students’ interest in mythology and the study of classics.

Whether you choose to major or minor in Classics or just take a few classes of interest, students in this field are exposed to the history, literature, art and architecture, archaeology, language, and religion of ancient times. Many classes are in English but some offer the subject...
matter in its original format of Greek or Latin. Many pre-med majors also find that an introduction to Latin vocabulary serves as an exceptional preparation for medical school where much of the terminology originated from Latin.

Classics is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, and oral and written communication. Law school is a popular destination after college, though certainly not the only option. A student’s career choices after college will be guided by how they applied their coursework to real world applications during college. A student who volunteered and interned in museums and galleries may find work in that industry. A student who obtained work experience during college in library reference may pursue that line of work after graduation.

Requirements

There are three minor concentrations:

- Classical Civilization
- Ancient Greek Language and Literature
- Classical Latin Language and Literature

Completion of each minor concentration requires a minimum of 21 credits, at least 9 of which must be upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Minor Concentration in Classical Latin Language and Literature

The Classical Latin Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>Select 6 credits in Latin at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Latin or Classic at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Minor Concentration in Classical Civilization

The Classical Civilization minor concentration requires completion of at least 12 credits, at least 9 of which must be upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSIC 170</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Select six additional credits in Classic (not Greek or Latin language) curricular area courses at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select six credits from among any Classic, Greek, or Latin courses (at least 3 of these credits must be at the 300 level or above)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Minor Concentration in Ancient Greek Language and Literature

The Ancient Greek Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEK 103</td>
<td>First Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 104</td>
<td>Second Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 205</td>
<td>Third Semester Greek (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>Select 6 credits in Greek at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Greek or Classic at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Associate Professor Elisabetta Cova, cova@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/foreign-languages-literature/undergraduate/classics/

Committee Interdisciplinary Major, BA: Chinese Language and Culture

The Committee Interdisciplinary Major with a focus in Chinese language and culture is a vital program with growing importance and value as China expands its role as a super power in world economics, manufacturing, technology, and politics.

Each year more and more students are joining the ranks of the 1.4 billion people who speak Mandarin, the official language of the People’s Republic of China and of Taiwan.

Many students now can find Chinese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Chinese language instruction. We offer eight semesters of Chinese language, and equally as important, we offer an array of classes on Chinese culture. Students can explore classes in Chinese art, Chinese film, the use of Chinese in business settings, Chinese and Asian history, and the politics and religions of the region.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Chinese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Students are encouraged to participate in UWM’s well-established study abroad (http://uwm.edu/cie/study-abroad/) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.
Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
</tbody>
</table>

Two semesters (college) of a single foreign language

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.
2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td>0-18</td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Completed 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Completed 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Completed 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement.
requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted at UWM. The major requires a minimum of 18 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires completion of 30 credits in approved Chinese and related courses. Students must complete 30 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Chinese. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements
The Chinese Language and Culture program requires completion of 30 credits in approved Chinese and related courses. Students in the major must complete the fifth- through eighth-semester Chinese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Chinese. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 330</td>
<td>Chinese Language and Culture</td>
<td></td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td></td>
</tr>
</tbody>
</table>

Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 699</td>
<td>Advanced Independent Study (satisfies the research requirement of the L&amp;S degree)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 10 credits

Total Credits 30

1 Students whose language skills allow them to begin their study of Chinese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

2 The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the Schedule of Classes under affiliated Film Studies courses, the Film Studies website, or the program advisor.

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 481</td>
<td>Topics in Chinese Art:</td>
<td>1-3</td>
</tr>
<tr>
<td>CHINESE 150</td>
<td>Contemporary Chinese Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 330</td>
<td>Chinese Language and Culture (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 397</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 489</td>
<td>Internship in Chinese, Upper Division</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 497</td>
<td>Study Abroad: (highly encouraged)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 699</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>COMPLIT 192</td>
<td>First-Year Seminar: (Secrets of Chinese Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society (Chinese Literature before the 20th Century)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Modern Chinese Literature)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 362</td>
<td>Transnational Asian Cinemas: (New Chinese Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context:</td>
<td>3</td>
</tr>
<tr>
<td>ECON 193</td>
<td>First-Year Seminar: (Growth and Development in China, Japan, and Korea)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 316 or COMPLIT/FILMSTD 316</td>
<td>World Cinema: (Hong Kong Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of
Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the College of Letters and Science

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive an all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Contact Information

Current Students contact Jue Chen (chen348@uwm.edu) or, Lixin Cai (cai@uwm.edu)

Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/chinese/undergraduate/

### Committee Interdisciplinary Major, BA: Japanese Language and Culture

As one of the five largest world economies, professional opportunities exist for individuals who are proficient in the Japanese language and who can understand and integrate into Japanese culture.

A Committee Interdisciplinary Major with a focus on Japanese language and culture can be the first step towards a career path in teaching, translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or computer technology, both large industries in Japan. A major in Japanese combined with technology and science training is excellent preparation for entry into those fields.

Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses about Japanese culture, business practices, values, politics, history, and religions.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Japanese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Japan is a very popular destination for study abroad (http://uwm.edu/cie/study-abroad/), and Japanese majors are encouraged to take advantage of the opportunities available through UWM. Programs vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

### Requirements

#### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Title</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td>Part A</td>
</tr>
<tr>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>English 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
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<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
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</tbody>
</table>
Achieve a grade of C or better in one of the following:

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<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

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</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete
the BA, students must take one of the L&S approved courses. Not all of
the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement.
Language courses (including American Sign Language) other than
English taken in high school may be used to satisfy all or part of this
requirement. One year of high school language equates to one semester
of college work.

Completion of the L&S Language Requirement also satisfies the
university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work, such as JAPAN 302 or JAPAN 301, or equivalent in another language other than English (including American Sign Language).</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work, such as JAPAN 301 or equivalent in another language other than English (including American Sign Language).</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Plus the 2nd semester of college work or equivalent in another language other than English (including American Sign Language).</td>
<td>0-18</td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td>9</td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
</tbody>
</table>

Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements
The Japanese Language and Culture program requires completion of 30 credits in approved Japanese and related courses. Students in the major must complete the fifth- through eighth-semester Japanese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced (300 and above) level taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Japanese. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>JAPAN 301</td>
<td>Fifth Semester Japanese</td>
</tr>
<tr>
<td></td>
<td>JAPAN 302</td>
<td>Sixth Semester Japanese</td>
</tr>
<tr>
<td></td>
<td>JAPAN 401</td>
<td>Seventh Semester Japanese</td>
</tr>
<tr>
<td></td>
<td>JAPAN 402</td>
<td>Eighth Semester Japanese</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>JAPAN 330</td>
<td>Japanese Language and Culture</td>
</tr>
<tr>
<td></td>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
</tr>
<tr>
<td></td>
<td>JAPAN 361</td>
<td>Translating Japanese Media</td>
</tr>
</tbody>
</table>
Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPAN 351</td>
<td>Japanese Performance Traditions</td>
<td>2</td>
</tr>
<tr>
<td>JAPAN 361</td>
<td>Translating Japanese Media</td>
<td>2</td>
</tr>
<tr>
<td>JAPAN 500</td>
<td>Research and Research Writing in Japanese</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 8 credits (see below) 3

Study Abroad

Study Abroad is strongly encouraged 4

Total Credits

30

1 Students whose language skills allow them to begin their study of Japanese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

2 Japanese majors wishing to use this course for the research requirement must notify the instructor that they will complete an independent research project.

3 At least one course must be taken outside the Japan curricular area.

4 Up to 12 credits from study abroad programs will be accepted for the major. Any language credits acquired from study abroad must not duplicate language credits acquired from classes taken at UWM.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. Major requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Japanese majors who meet the following requirements may apply to the undergraduate advisor to graduate with “Honors in the Major”.

1. Maintain a 3.000 cumulative GPA on all UWM credits attempted;

2. Maintain a 3.500 GPA on all credits that count toward the major, and

3. Maintain a 3.500 GPA on all advanced credits that count toward the major.

4. Complete a research project in consultation with the major advisor. The project also serves to fulfill the L&S Research Requirement for the Japanese Major.
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Assistant Professor Aragorn Quinn, quinna@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/japanese/undergraduate (http://uwm.edu/japanese/undergraduate/)

German, BA

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State's German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

Students are encouraged to participate in UWM's well-established study abroad (http://uwm.edu/cie/study-abroad/) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Logic - Critical Reasoning ^1</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
</tbody>
</table>
Select 6 credits (at least two courses including one lab)  

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement.

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements
I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements

All majors are required to take an advanced language proficiency exam, normally during the semester in which they complete 24 credits in the major. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Majors must register with the program at the beginning of their candidacy.

The major requires a minimum of 30 credits. At least 18 of the 30 credits must be at the 300 level and above and taken in residence at UWM. No more than 18 credits will be accepted from study abroad.

VI. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Research Experience

The College of Letters & Science requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses. Depending on the course chosen, the research course can also count for the requirement for a 300 level and above course or for a course numbered between 470 and 488, but cannot count for both.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 371</td>
<td>German Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 474</td>
<td>German for Professional Purposes</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 475</td>
<td>Seminar on the History and Structure of German</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 483</td>
<td>Seminar on German Studies:</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 484</td>
<td>Seminar on Themes and Motifs in German Literature:</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 488</td>
<td>Topics in German Philology:</td>
<td>3</td>
</tr>
</tbody>
</table>
Pre-Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 525</td>
<td>Seminar in Advanced German Translation</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 645</td>
<td>Seminar on Representative German Authors:</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 649</td>
<td>Seminar on Theoretical Approaches to German Literature:</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Jonathan Wipplinger, wippling@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/german/undergraduate/

German, Minor

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State’s German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

Students are encouraged to participate in UWM’s well-established study abroad (http://uwm.edu/cie/study-abroad/) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements
The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor in German requires a minimum of 21 credits. At least 12 of these credits must be at the 300 level or above and taken in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 204</td>
<td>German in Your Field and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 331</td>
<td>German Grammar in Practice</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332</td>
<td>Presentation and Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Take either one or both</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>GERMAN 333 Texts and Contexts</td>
<td></td>
</tr>
</tbody>
</table>

GERMAN 334 Introduction to German Studies
Select 6-9 additional credits in courses taught in German program at the 300 level or above

Total Credits 21

1 If student does not take both 333 and 334, then 3 credits must come from the list of pre-approved electives or as approved by coordinator

Pre-Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 205</td>
<td>History of Film I: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 206</td>
<td>History of Film II: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 357</td>
<td>Nineteenth-Century Painting in Europe</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 364</td>
<td>Modern Painting II: 1900 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 366</td>
<td>German Painting, 1800-1933</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 464</td>
<td>European Art, 1890-1910</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 465</td>
<td>Dada and Surrealist Art</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 205</td>
<td>History of Film I: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 206</td>
<td>History of Film II: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>GEG 330</td>
<td>Europe: East and West</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 111</td>
<td>German Life and Civilization: Part I</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 112</td>
<td>German Life and Civilization: Part II</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 145</td>
<td>Views of Germany:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204</td>
<td>The History of Medieval Europe: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 248</td>
<td>The First World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 249</td>
<td>The Second World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 246</td>
<td>German and French Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 377</td>
<td>Song Literature I: Italy, Germany, France, Great Britain</td>
<td>2</td>
</tr>
<tr>
<td>PHILOS 435</td>
<td>Existentialism</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 437</td>
<td>Phenomenology</td>
<td>3</td>
</tr>
</tbody>
</table>
Japanese, Minor

As one of the five largest world economies, professional opportunities exist for individuals who are proficient in the Japanese language and who can understand and integrate into Japanese culture.

A minor in Japanese can part of the first step towards a career path in teaching, translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or computer technology, both large industries in Japan. A Committee Interdisciplinary Major with a focus in Japanese Language and Culture, combined with technology and science training, is excellent preparation for entry into those fields.

Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses about Japanese culture, business practices, values, politics, history, and religions.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Japanese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Japan is a very popular destination for study abroad (http://uw.edu/cie/study-abroad/), and Japanese majors are encouraged to take advantage of the opportunities available through UWM. Programs vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

A minimum of 9 credits must be taken at the 300 level or above. A minimum of 9 credits must be taken in residence at UWM. Students entering with no previous Japanese language experience should enroll in JAPAN 101. Students entering with previous knowledge of, or high school preparation in, Japanese, or transfer students who have studied Japanese in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Japanese program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits earned at the 200 level or above to a maximum of 16 credits, for the courses leading to the one into which they are placed.

The College requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Those who are able to begin their study of Japanese beyond the third-semester level will take additional elective credits, approved by the Japanese language coordinator, to complete at least 18 credits in the minor. Students must complete a minimum of 12 credits in language courses. The following (or equivalent or exemption) are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPAN 201</td>
<td>Third-Semester Japanese</td>
<td>5</td>
</tr>
<tr>
<td>JAPAN 202</td>
<td>Fourth-Semester Japanese</td>
<td>5</td>
</tr>
<tr>
<td>JAPAN 301</td>
<td>Fifth Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPAN 302</td>
<td>Sixth Semester Japanese</td>
<td>4</td>
</tr>
</tbody>
</table>

Select at least 3 credits from the following:

<table>
<thead>
<tr>
<th>Courses in Japanese above 102</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 325</td>
</tr>
<tr>
<td>ENGLISH 316</td>
</tr>
<tr>
<td>HIST 394</td>
</tr>
<tr>
<td>HIST 395</td>
</tr>
</tbody>
</table>

Total Credits 3

Contact Information

Current Students contact Associate Professor Jonathan Wippling, wippling@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/german/undergraduate/

Russian and East European Studies, Undergraduate Certificate

The purpose of the Russian and East European Studies undergraduate certificate is to enable students to take a coordinated series of courses and to receive a formal certificate signifying this specialization.

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a "critical language" and has many programs to encourage students to join this needed area of study.

At UWM, students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to success fully apply their fluency. Students are also encouraged to
participate in UWM’s study abroad program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

**Eligibility**

The Russian and East European Studies Certificate Program is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

**Requirements**

To obtain the certificate, students must complete at least 18 credits including the requirements in either of the following two tracks. In both tracks, students must achieve a minimum grade point average of 2.75 in all courses taken for the certificate, including language courses. Students should be aware that not all certificate courses are taught regularly. They are advised, therefore, to plan ahead in choosing courses needed for the certificate. A maximum of 3 credits in advanced independent study courses (699) may be applied toward completion of certificate requirements. Other appropriate courses taught by the area faculty, but not on the list, may be taken with the approval of the Chair of the Russian and East European Studies Committee. For courses to count towards the REES certificate, at least one third of the content must be related to the region. Students seeking a bachelor’s degree from UWM, to those who previously awarded.

To complete the survey prior to graduation will delay processing of the certificate. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

**Courses Approved for the Certificate Program**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>Poland and its Neighbors, 1795-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 248</td>
<td>The First World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 295</td>
<td>Historical Encounters: (with Russian and/or East European subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
</tr>
<tr>
<td>HIST 346</td>
<td>Poland and its Neighbors, 1914-1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 348</td>
<td>Poland and its Neighbors, 1945 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 421</td>
<td>Introduction to Yiddish Literature:</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 312</td>
<td>The Politics of Authoritarian Regimes</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 333</td>
<td>Seminar in Comparative Politics: (with Russian and/or East European subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Polish**

All courses. The following Polish courses are offered regularly:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLISH 101</td>
<td>First-Semester Polish</td>
<td>4</td>
</tr>
<tr>
<td>POLISH 102</td>
<td>Second-Semester Polish</td>
<td>4</td>
</tr>
<tr>
<td>POLISH 236</td>
<td>Polish Culture in its Historical Setting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Russian**

All courses. The following Russian courses are offered regularly:
RUSSIAN 101 First-Semester Russian 5
RUSSIAN 102 Second-Semester Russian 5
RUSSIAN 201 Third-Semester Russian 4
RUSSIAN 202 Fourth-Semester Russian 4
RUSSIAN 310 Advanced Russian Reading and Conversation: 3
RUSSIAN 311 Contemporary Russian Language: 3
RUSSIAN 419 Introduction to Translation: Russian to English 3

Courses taught in English:
FLL 240 Vampires: From Slavic Village to Hollywood 3
RUSSIAN 245 Russian Life and Culture 3
RUSSIAN 260 Topics in Slavic Culture: Major Works 1
RUSSIAN 350 Dostoyevsky and Tolstoy in Translation: 3
RUSSIAN 361 Russian and Slavic Folklore 3
RUSSIAN 391 Russian Literature and Culture in Translation: 3

Slavic Languages
All courses

Contact Information
Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs/?discipline=Russian+%26+East+European+Studies

Russian, BA
In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a “critical language” and has many programs to encourage students to join this needed area of study.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency.

Students are also encouraged to participate in UWM’s study abroad (https://uwm.edu/cie/study-abroad/) program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning ¹</td>
<td></td>
</tr>
<tr>
<td>PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

Or equivalent course

Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab) 6

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in the following ways:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.
requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements
Majors must complete at least 15 credits in advanced-level courses (300 and above) in residence at UWM; at least 9 of these credits must be in the Russian curricular area. Students must attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, the College of Letters and Science requires that students attain a 2.0 GPA on all major credits attempted, including any transfer work. Major courses taken outside the Russian curricular area count in the major GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive study abroad should contact the program coordinator to discuss the college's residency requirement.

The Russian major requires completion of four semesters of college-level Russian (through RUSSIAN 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the major GPA. In addition, individuals must complete 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSSIAN 310</td>
<td>Advanced Russian Reading and Conversation:</td>
<td>3</td>
</tr>
<tr>
<td>RUSSIAN 311</td>
<td>Contemporary Russian Language:</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits in Russian</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 12 additional credits

Research Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSSIAN 391</td>
<td>Russian Literature and Culture in Translation:</td>
<td>3</td>
</tr>
<tr>
<td>or RUSSIAN 699</td>
<td>Supervised Individual Reading</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 33

1 Selected from Russian and/or cross-listed and related courses (see the two lists below). A maximum of 3 credits from the list of related courses can count toward this requirement.

2 As part of their required credits, all students must complete a research experience as required by the College. Students will satisfy this requirement in the context of RUSSIAN 391 or RUSSIAN 699.

Cross-listed Courses

The following courses are approved to satisfy the requirements of the Russian major and minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.
All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/russian/

**Russian, Minor**

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a “critical language” and has many programs to encourage students to join this needed area of study.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency.
Students are also encouraged to participate in UWM’s study abroad program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

At least 9 credits must be completed in advanced-level courses in residence at UWM; at least 6 of these credits must be in the Russian curricular area. Students must attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, the College requires that students attain a 2.0 GPA on all minor credits attempted, including transfer work. Minor courses taken outside the Russian curricular area count in the minor GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive advanced-level coursework at a Russian university should contact the program coordinator to discuss the College’s residency requirement.

The Russian minor requires completion of four semesters of college-level Russian (through RUSSIAN 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, minors must complete 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSSIAN 310</td>
<td>Advanced Russian Reading and Conversation:</td>
<td>3</td>
</tr>
<tr>
<td>RUSSIAN 311</td>
<td>Contemporary Russian Language:</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 additional credits in the Russian curricular area</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select 6 credits in Russian and/or courses selected from the list of cross-listed courses below</td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

### Cross-listed Courses

The following courses are approved to satisfy the requirements of the Russian minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Russian Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (Gender and Ethnicity in and After the USSR)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (Russia in Transition: Media and Values)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Contact Information

Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/russian/

### Scandinavian Studies, Undergraduate Certificate

As of Fall 2020, the Scandinavian Studies certificate program has suspended admission. This means that unless you have been accepted into this degree program prior to Fall 2020, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Scandinavian Studies certificate program prior to Fall 2020.

### Eligibility

The Scandinavian Studies Undergraduate Certificate Program is open to all students seeking a bachelor’s degree from UWM and to students who previously received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree receive the certificate upon completion of the program requirements.

### Requirements

To complete the certificate, students must earn a minimum GPA of 3.000 in 18 credits of Scandinavian Studies courses, as listed below.

Scandinavian studies courses completed elsewhere, with the approval of the program coordinator, will be accepted in partial fulfillment of the requirements of the certificate. The majority of the certificate requirements may be completed at Mälardalen University, UWM’s sister university in Sweden. Students attending Mälardalen University pay UWM tuition and take courses on the Swedish language and Scandinavian culture. Students also may take courses in pursuit of their other academic interests, either in Swedish or in English.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCNDVST 101</td>
<td>First-Semester Swedish</td>
<td>6</td>
</tr>
<tr>
<td>SCNDVST 102</td>
<td>Second-Semester Swedish</td>
<td></td>
</tr>
<tr>
<td>SCNDVST 203</td>
<td>Third-Semester Swedish</td>
<td></td>
</tr>
<tr>
<td>SCNDVST 204</td>
<td>Fourth-Semester Swedish</td>
<td></td>
</tr>
</tbody>
</table>

### Scandinavian Languages

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 115</td>
<td>Seminar on Scandinavian Culture:</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 699</td>
<td>Independent Reading (Hans Christian Andersen and/or Nineteenth Century Scandinavian Literature [Additional appropriate courses may be offered under this rubric])</td>
<td>3</td>
</tr>
</tbody>
</table>

12 credits in elective courses are required, and may include additional language courses. Courses may also be selected from the approved list (below) or from other appropriate courses identified and approved by the program coordinator.
French, Italian, and Comparative Literature

The study of languages has been the fundamental basis of liberal education since the Renaissance, and it is crucial to learning in the 21st century as technologies create global channels of communication. This department, therefore, is committed to promoting the study of at least one second language in order to enable students to participate in the world of international communities and, moreover, to appreciate and contribute to a broad spectrum of diverse cultures. The Department of French, Italian, and Comparative Literature offers a complete sequence of courses in two languages and in the literatures and cultures of the world.

The department follows the Credit for Demonstrated Equivalent Preparation policy.

Programs

- Business French, Minor (p. 919)
- Comparative Literature, BA (p. 920)
- Comparative Literature, Minor (p. 923)
- French and Francophone Studies, Undergraduate Certificate (p. 924)
- French, BA (p. 926)
- French, Minor (p. 929)
- Italian, BA (p. 930)
- Italian, Minor (p. 933)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anita Alkhas</td>
<td>Associate Professor (French)</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lawrence Baldassaro</td>
<td>Professor Emeritus (Italian)</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarah Davies Cordova</td>
<td>Professor (French)</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lawrence Kuiper</td>
<td>Associate Professor (French)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Mileham</td>
<td>Associate Professor Emeritus (French)</td>
<td></td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simonetta Milli-Konewko</td>
<td>Associate Professor (Italian)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Paik</td>
<td>Associate Professor (Comparative Literature)</td>
<td>PhD</td>
<td>University of Virginia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robin Pickering-Iazzi</td>
<td>Professor (Comparative Literature/Italian)</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kristin Pitt</td>
<td>Associate Professor (Comparative Literature)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nicolas Russell</td>
<td>Associate Professor (French)</td>
<td>PhD</td>
<td>University of Virginia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caroline Seymour-Jorn</td>
<td>Associate Professor (Comparative Literature)</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bruce R. Stark</td>
<td>Associate Professor Emeritus (Comparative Literature)</td>
<td>PhD</td>
<td>Harvard Divinity School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roy Arthur Swanson</td>
<td>Professor Emeritus (Comparative Literature)</td>
<td>PhD</td>
<td>University of Iowa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madeleine Velguth</td>
<td>Professor Emerita (French)</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gabrielle Verdier</td>
<td>Professor Emerita (French)</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demetrios Williams</td>
<td>Associate Professor (Comparative Literature)</td>
<td>ThD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jian Xu</td>
<td>Associate Professor (Comparative Literature)</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Business French, Minor

Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (http://uwm.edu/cie/study-abroad/) opportunities. Students who enter UWM with advanced French can earn both a bachelor’s and master’s in 5 years to become a translator/interpreter.

Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

Requirements

The business French minor consists of a minimum of 18 credits taken in one of two tracks. The curriculum includes courses in business administration for non-business students and courses in the practical and professional use of the French language as well as understanding of Francophone culture for business students. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Substitutions for some course requirements are possible and may include internships with firms doing business in French-speaking countries (including Canada). Students also have the option of completing a Certificate in Business French offered by the Paris Chamber of Commerce. For further information, consult the French Program Coordinator.

Non-Business Student Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/ Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/ Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201 or BUS ADM 360</td>
<td>Introduction to Financial Accounting Principles of Marketing</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Select one of the following: 3

| FRENCH 324 | Contemporary French Language and Culture ¹ | 3       |

Total Credits 18-19

¹ These courses satisfy GER Humanities distribution requirements.

Business Student Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 203</td>
<td>Third-Semester French ¹</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 204</td>
<td>Fourth-Semester French ¹</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/ Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/ Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

| FRENCH 324 | Contemporary French Language and Culture ² | 3       |
| FRENCH 430 | Reaction and Innovation: French Culture of the 19th and 20th Centuries | 3       |
| FRENCH 432 | Seminar in French and Francophone Cultures: | 3       |
| FRENCH 450 | Institutions and Culture of Contemporary France | 3       |
| FRENCH 451 | Cinema of the French-Speaking World: ² | 3       |

Select at least 3 credits in the following: 3

| FRENCH 210 | French Immersion: Intermediate | 3       |
| FRENCH 303 | Conversation and Composition: Intermediate Level ² | 3       |
| FRENCH 324 | Contemporary French Language and Culture (if not selected above) ² | 3       |
| FRENCH 325 | Intensive Grammar and Usage | 3       |
| FRENCH 410 | French Immersion: Advanced | 3       |
| FRENCH 415 | Introduction to Translation: French to English | 3       |

Total Credits 18
Students who place into FRENCH 303 and above, and therefore are exempt from taking FRENCH 203 and FRENCH 204, are expected to take 6 additional credits in language and culture at the 300 level and above.

These courses satisfy GER Humanities distribution requirements.

Contact Information
Current Students contact the Department directly, french-italian@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/french/undergraduate/minor/

Comparative Literature, BA

In the Comparative Literature major, students examine literature across languages, geographic location, time periods, and genres. The discipline also explores the relationship between literature and other forms of cultural expression such as pop culture, technology, arts, music, or film, as well as the relationship between literature and other academic disciplines, like anthropology, history, religious studies, or women’s and gender studies. It’s a great major for anyone who loves to explore other cultures.

Students sometimes ask whether they need to be fluent in a foreign language in order to study comparative literature. Definitely not! While all of UWM’s instructors and faculty in comparative literature do research in other languages, all Comparative Literature courses are taught entirely in English. Comparative Literature majors choose one of two paths - one path that requires some literature courses be taken in a foreign language program, or another path where all classes are taught in English.

Our alumni can be found working in university and K-12 education, the arts, politics, law, library services, publishing, social services, journalism and communications, editorial roles, marketing, fundraising, corporate sales, consulting, and many other fields. Their knowledge and skills in cross-cultural communication, critical analysis, reading and comprehension of complex text, and writing are highly valued.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

| MTHSTAT 215 | Elementary Statistical Analysis |         |
| PHILOS 211  | Elementary Logic                  |         |
| POL SCI 390 | Political Data Analysis           |         |
| POL SCI 392 | Survey Research                   |         |
| PSYCH 210   | Psychological Statistics           |         |
| SOCIOL 261  | Introduction to Statistical Thinking in Sociology |         |

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Completed in one of the following ways:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-18</td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

Completed in one of the following ways:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Comparative Literature, BA

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.*  

Social Sciences
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.*  

Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.*  

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.**  

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements
The program welcomes prospective majors who have maintained a minimum 2.500 GPA in their language and literature courses during the freshman and sophomore years. Prospective majors should meet with the Comparative Literature coordinator to declare the major. Students are assigned a Comparative Literature advisor in their primary areas of interest. The advisor helps students design plans of study tailored to their particular interests, academic goals, and professional aspirations.

Comparative literature majors are encouraged to take additional literature courses offered in languages other than English when possible. They also are encouraged to take additional courses outside of the program in the analysis of literature and other arts. In many cases, these courses may be counted toward the comparative literature major.

All CompLit courses and approved electives that a student takes will count in calculating the major GPA. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

The department offers two options for the major. Both major options require that, in their senior year, students complete a research project that focuses on major theoretical and critical trends in comparative literature. Students may fulfill this requirement by completing either COMPLIT 463 or COMPLIT 464.

Credit Requirements
A total of 36 credits is required for the major, including COMPLIT 207 and COMPLIT 208 and at least 24 credits at the advanced level (numbered 300 and above). At least 15 of the advanced credits must be taken in residence at UWM. Students may count toward the major up to 6 credits in the following selected in consultation with their advisor. Students will take 15 credits in Core and Foundation courses and 21 credits in either Option A or Option B for a total of 36.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core and Foundation Courses</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present:</td>
<td>3</td>
</tr>
<tr>
<td>Choose 1 of the following to complete the research requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 463</td>
<td>Literary Criticism: Major Authors</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 464</td>
<td>Seminar in Comparative Literary Criticism:</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of lower level courses from the list below</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Option A
This option is recommended particularly for students who intend to pursue graduate work in comparative literature. Option A students must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td>Select 9-12 credits in CompLit courses numbered 300 and above</td>
<td>9-12</td>
<td></td>
</tr>
<tr>
<td>Select 9-12 credits in advanced literature courses (numbered 300 and above) offered in a foreign language</td>
<td>9-12</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21
If student takes 9 credits in COMPLIT, then the student must take 12 credits of advanced literature course. If the student takes 9 credits of advanced literature courses, then the student must take 12 credits of COMPLIT courses.

**Option B**

This option is offered for students with little if any training in a foreign language. Though such work normally is not considered as suitable preparation for graduate work in comparative literature, Option B offers training that is useful and applicable in many academic and professional fields. Option B students must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>Select 12 additional credits in CompLit courses numbered 300 and above</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits in advanced courses (300 and above) in the analysis of literature or the other arts</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Advanced courses (300 and above) in the analysis of literature or the other arts offered by CompLit or by other related departments and programs, with the approval of the CompLit advisor. This includes literature-in-translation courses offered by foreign language programs as well as courses in Art History, English, Film Studies, Philosophy, Religious Studies, or other disciplines that have as their focus the study of literature and/or the other arts.

**Comparative Literature Advising**

Students select a departmental advisor from Comparative Literature faculty and staff upon declaring a major or minor in Comparative Literature. Departmental advisors work closely with students to develop an individual course of study that will both match their interests and fulfill program requirements.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact the Program directly, comp-lit@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-literature/undergraduate/

**Comparative Literature, Minor**

Students examine literature across languages, geographic location, time periods, and genres by pursuing the comparative literature minor. The discipline also explores the relationship between literature and other forms of cultural expression such as pop culture, technology, arts, music, or film, as well as the relationship between literature and other academic disciplines, like anthropology, history, religious studies, or women's and gender studies. It’s a great major or minor for anyone who loves to explore other cultures.

Students sometimes ask whether they need to be fluent in a foreign language in order to study comparative literature. Definitely not! While all of UWM’s instructors and faculty in comparative literature do research in other languages, all Comparative Literature courses are taught entirely in English.
Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor requires 18 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3 credits

- COMPLIT 133
- COMPLIT 135
- COMPLIT 230
- COMPLIT 231
- COMPLIT 232
- COMPLIT 233

Select 9 credits at the advanced level (numbered 300 or above), which must be taken in residence at UWM 9 credits

Total Credits 18

Contact Information

Current Students contact the Program directly, comp-lit@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-literature/undergraduate/

French and Francophone Studies, Undergraduate Certificate

Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore many study abroad opportunities. Students who enter UWM with advanced French can earn both a bachelor’s and master’s in 5 years to become a translator/interpreter.

Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The undergraduate certificate in French and Francophone Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

Requirements

Students must achieve a grade point average of 2.750 or higher in the courses that satisfy the program requirements, and all such courses must be graded. They cannot be taken on a credit/no credit basis.

Certificate students who are majoring or minoring in French must take at least 9 credits outside the French curricular area.

Credits earned at other institutions in equivalent French and Francophone Studies courses will be accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than 9 credits from courses at other institutions to the UWM program.

Students currently enrolled at UWM who fulfilled some of the program’s requirements prior to its approval may have their credits applied retroactively toward the certificate.

To obtain a certificate in French and Francophone Studies with language proficiency, students must complete, as part of or in addition to the certificate requirements, 9 credits in language, literature, or culture courses taught in French numbered 300 or above.

Students enrolled in the program must complete at least 18 credits from the list of courses (see below) approved for the certificate, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Select 3 credits in a French language course numbered 200 or above</td>
<td>3</td>
</tr>
<tr>
<td>II.</td>
<td>Select 3 additional credits in humanities</td>
<td>3</td>
</tr>
<tr>
<td>III.</td>
<td>Select 6 credits in social sciences</td>
<td>6</td>
</tr>
<tr>
<td>IV.</td>
<td>Select 6 credits in courses dealing with Europe</td>
<td>6</td>
</tr>
<tr>
<td>V.</td>
<td>Select 6 credits in courses dealing with Francophone areas outside of Europe</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 24

Of the courses taken to complete these requirements, 9 credits must be in courses numbered 300 or above.
Exit Survey

All students are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program. The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please Note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Approved Courses

The following courses are approved to satisfy requirements for the French and Francophone Studies Certificate. The Roman numerals within the parentheses following each course title indicate the requirement(s), I through VI, for which the course counts. See the program coordinator for the most current list.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (III, V)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 465</td>
<td>Dada and Surrealist Art (III, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 145</td>
<td>Views of France: (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 203</td>
<td>Third-Semester French (I, II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 204</td>
<td>Fourth-Semester French (I, II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 210</td>
<td>French Immersion: Intermediate (I, II)</td>
<td>1-2</td>
</tr>
<tr>
<td>FRENCH 289</td>
<td>Internship in French (II, V)</td>
<td>1-6</td>
</tr>
<tr>
<td>FRENCH 290</td>
<td>Intermediate French Electives: (II, V)</td>
<td>3-12</td>
</tr>
<tr>
<td>FRENCH 299</td>
<td>Ad Hoc: (II, V)</td>
<td>1-6</td>
</tr>
<tr>
<td>FRENCH 303</td>
<td>Conversation and Composition: Intermediate Level (I)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 310</td>
<td>Contemporary French Usage (I)</td>
<td>1-2</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis (I)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture (I, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage (I)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 349</td>
<td>Studies in French Culture: (II, V)</td>
<td>2-4</td>
</tr>
<tr>
<td>FRENCH 357</td>
<td>Literature of the French-Speaking World in Translation: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 392</td>
<td>Phonetics (I, II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English (V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 427</td>
<td>Advanced Written Expression (I, II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 428</td>
<td>Castles, Cathedrals, and Common People: The Foundations of French Culture (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 429</td>
<td>Royalty, Reason, and Revolution: The Golden Age of French Culture (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 430</td>
<td>Reaction and Innovation: French Culture of the 19th and 20th Centuries (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 431</td>
<td>Seminar in Literature of the Francophone World: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 433</td>
<td>Seminar in French Literature: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 449</td>
<td>Studies in French Culture: (II, V)</td>
<td>2-4</td>
</tr>
<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 457</td>
<td>Topics in French and Francophone Studies in Translation: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 489</td>
<td>Internship in French (II, V)</td>
<td>1-6</td>
</tr>
<tr>
<td>FRENCH 499</td>
<td>Ad Hoc: (II, V)</td>
<td>1-6</td>
</tr>
<tr>
<td>FRENCH 510</td>
<td>Seminar on Masterpieces of Literature Written in French: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Modern and Contemporary France (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880 (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880 (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: (with appropriate subtitle) (III, IV, V)</td>
<td>3</td>
</tr>
<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (with appropriate subtitle) (II, III, IV, V)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period (II, IV)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 435</td>
<td>Existentialism (II, IV)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 300</td>
<td>Western European Politics (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 339</td>
<td>European Integration (III, IV)</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact the Department directly, french-italian@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

French, BA

Develop global perspectives sought by companies, educational institutions and NGOs in the U.S., France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (http://uwm.edu/cie/study-abroad/) opportunities. Students who enter UWM with advanced French can earn both a bachelor's and master's in 5 years to become a translator/interpreter.

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Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
</tbody>
</table>

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*
1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-18</td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement.

Language courses (including American Sign Language) other than...
* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.
** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

The major in French consists of 27 credits, at least 15 numbered above 303 taken in residence at UWM. The department offers two options:
- French and Francophone Option
- French Translation Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Requirements
Select two of the following:
- FRENCH 428 Castles, Cathedrals, and Common People: The Foundations of French Culture
- FRENCH 429 Royalty, Reason, and Revolution: The Golden Age of French Culture
- FRENCH 430 Reaction and Innovation: French Culture of the 19th and 20th Centuries

Options
Select one of the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
</tr>
<tr>
<td>or FRENCH 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one elective course in French numbered above 350
Select one elective course in literature in French numbered above 400

Total Credits 27

Options
All majors are required to pass an advanced language proficiency examination, which they are advised to take during the semester in which they complete 18 credits in the major.

French and Francophone
The French and Francophone option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits in advanced-level French courses.

French Translation
The French Translation option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
</tr>
<tr>
<td>or FRENCH 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one elective course in French numbered above 350
Select one elective course in literature in French numbered above 400

Total Credits 12

Related Course
The following course offered by the Department of Linguistics may be of interest to students concentrating in French. It may not, however, be used to fulfill curricular requirements of the undergraduate major in French.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including
high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**Honors in the College of Letters and Science**

**Dean's Honor List**
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact the program directly, french-italian@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/french/undergraduate/Minor/

**French, Minor**
Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (http://uwm.edu/cie/study-abroad/) opportunities. Students who enter UWM with advanced French can earn both a bachelor’s and master’s in 5 years to become a translator/interpreter. Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

**Requirements**
The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. At least 9 credits must be taken at the 300 level or above in residence at UWM.

The minor in French consists of a minimum of 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 204</td>
<td>Fourth-Semester French (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 303</td>
<td>Conversation and Composition: Intermediate Level (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts (or equivalent)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 credits in French literature, language, and culture above the 300 level

**Total Credits**
18

**Contact Information**
Current Students contact the Department directly, french-italian@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/french/undergraduate/
Italian, BA

Italy has one of the ten largest economies in the world, and mastering Italian can open up a world of professional and personal opportunities. Italian has more than 67 million native speakers worldwide. Some 120 million people speak Italian as a second language. In addition to serving as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

Learning Italian serves as a gateway to a wide variety of career opportunities, in finance, marketing, journalism, translation, and computer programming. Italy is also a leader in the fields of air and water quality control, transportation technology, food and beverage fields, robotics, interior design and fashion.

The courses in the Italian Program are designed to help students become fluent in both the language and culture of Italy. On the very first day of class, students begin speaking Italian, and gain valuable communication skills as they progress through the intermediate and advanced courses. Students may choose from an array of Italian courses on various topics that enable them to understand key turning points in Italian history, society and politics, cultural trends, and movements in such arts as film and literature. Italian courses contribute to such programs as Global Studies and the certificate program in Food Studies.

Students are also encouraged to participate in UWM's study abroad (http://uwm.edu/cie/study-abroad/) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University-wide General Education Requirements</td>
<td></td>
</tr>
</tbody>
</table>

Oral and Written Communication

<table>
<thead>
<tr>
<th>Part A</th>
<th>Achieve a grade of C or better in the following course:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
<th>Achieve a grade of C or better in the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part B</th>
<th>Course designated as QL-B; may be completed through a major-specific course requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
</tr>
</tbody>
</table>

Arts

<table>
<thead>
<tr>
<th>Select 3 credits</th>
</tr>
</thead>
</table>

Humanities

<table>
<thead>
<tr>
<th>Select 6 credits</th>
</tr>
</thead>
</table>

Social Sciences

<table>
<thead>
<tr>
<th>Select 6 credits</th>
</tr>
</thead>
</table>

Natural Sciences

<table>
<thead>
<tr>
<th>Select 6 credits (at least two courses including one lab)</th>
</tr>
</thead>
</table>

UWM Foreign Language Requirement

<table>
<thead>
<tr>
<th>Complete Foreign Language Requirement through:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two years (high school) of a single foreign language</td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
</tr>
<tr>
<td>Or equivalent</td>
</tr>
</tbody>
</table>

UWM Cultural Diversity Requirement

<table>
<thead>
<tr>
<th>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</th>
</tr>
</thead>
</table>

| Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses. |

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College...
II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

IV. International Requirement
See Approved Courses for the L&S International Requirement ([http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/](http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.
Courses in other literatures and Comparative Literature. Up to 6 credits in Italian Program count toward the major. Students are encouraged to take the language course suited to their skill level. Students placed in more advanced courses can receive up to 14 retroactive credits of Italian if they present their research in a final 10- to 12-page paper.

### Major Requirements

Students who wish to become Italian majors may do so by registering with the Italian Program Director. To be accepted and to continue as majors, students must maintain at least a 2.0 GPA in all Italian courses attempted at UWM. In addition, the College of Letters and Science requires students to attain a 2.0 GPA in all major credits attempted, including any transfer work.

Students who have never studied Italian should begin by taking Italian 103. Students who already have some knowledge of Italian should take the placement exam administered by the Italian Program to determine the language course suited to their skill level. Students placed in more advanced courses can receive up to 14 retroactive credits of Italian if they pass the course in which they are placed with a grade of B or better.

### Course and Credit Requirements

The major in Italian consists of 38 credits. All courses offered by the Italian Program count toward the major. Students are encouraged to take courses in other literatures and Comparative Literature. Up to 6 credits in courses offered in other departments can count toward the Italian major, with the approval of the program director.

At least 15 of the 38 total credits in Italian courses must be earned at the 300-level or above and taken in residence at UWM.

The credits are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture</td>
<td>6</td>
</tr>
<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation: *</td>
<td>2</td>
</tr>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>6</td>
</tr>
<tr>
<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>6</td>
</tr>
<tr>
<td>ITALIAN 321</td>
<td>Introduction to Italian Literature</td>
<td>6</td>
</tr>
<tr>
<td>ITALIAN 322</td>
<td>Introduction to Italian Literature and Film</td>
<td>6</td>
</tr>
<tr>
<td>ARTHIST 333</td>
<td>High Renaissance Art in Italy</td>
<td>6</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>6</td>
</tr>
<tr>
<td>CLASSIC 303</td>
<td>The Life and Literature of the Roman Empire</td>
<td>6</td>
</tr>
<tr>
<td>CLASSIC 304</td>
<td>The Graeco-Roman World: (with appropriate subtitle/topic)</td>
<td>6</td>
</tr>
</tbody>
</table>

* For students who do not earn retro credits, additional electives will be required to reach the total of 38 credits.

* Italian 457, with a passing grade, satisfies the research requirement of the College of Letters and Science. Students will conduct independent research related to the general theme of the course, presenting their research in a final 10- to 12-page paper.

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-
as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

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The courses in the Italian Program are designed to help students become fluent in both the language and culture of Italy. On the very first day of class, students begin speaking Italian, and gain valuable communication skills as they progress through the Intermediate and advanced courses. Students may choose from an array of Italian courses on various topics that enable them to understand key turning points in Italian history, society and politics, cultural trends, and movements in such arts as film and literature. Italian courses contribute to such programs as Global Studies and the certificate program in Food Studies.

Students are also encouraged to participate in UWM's study abroad (http://uwm.edu/cie/study-abroad/) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements
At least 9 credits must be taken at the 300 level or above in residence at UWM. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The Italian minor requires 18 credits distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits within the Italian curricular area, including courses in language (beyond the first year), literature, film, culture, and civilization</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

Contact Information
Current Students contact the Program directly, french-italian@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/italian/undergraduate/

Italian, Minor
Italy has one of the ten largest economies in the world, and mastering Italian can open up a world of professional and personal opportunities.

Italian has more than 67 million native speakers worldwide. Some 120 million people speak Italian as a second language. In addition to serving as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

Geography
Geography is the study of the earth as created by natural forces and modified by human actions. It analyzes spatial patterns and locational associations of human and physical environments. It is concerned with people's interrelationships with their environments now, in the past, and...
Geographic Information Science, Minor

The Department of Geography includes the Cartography and Geographic Information Science (GIS) Center and works closely with the American Geographical Society Library, one of the largest holdings of geographical materials in the world.

Programs

- Geographic Information Science, Minor (p. 934)
- Geographic Information Systems, Graduate Certificate (College of Letters and Science) (p. 934)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anne Bonds</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Washington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woonsup Choi</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois at Urbana-Champaign</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael J. Day</td>
<td>Professor</td>
<td>PhD</td>
<td>Trinity College, Ireland</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alison Donnelly</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glen Fredlund</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rina Ghose</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ryan Holifield</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Judith Kenny</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Lund University, Sweden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anna Mansson McGinty</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linda McCarthy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mark D. Schwartz</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kristin Sziarto</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changshan Wu</td>
<td>Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zengwang Xu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hyejin Yoon</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Geographic Information Science, Minor

The Geographic Information Science (GIS) minor is available to students who want to learn GIS without majoring in geography. GIS refers to working with spatial data, which is useful in many fields, including urban planning, environmental analysis, cartography, retail and real estate, health, and military intelligence.

Requirements

The GIS minor requires the completion of a minimum of 18 credits, at least 9 of them at the 300 level or above taken in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

Contact Information

Current Students contact Associate Professor Kristin Sziarto at sziarto@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/geography/undergraduate/minor-in-gis/

Geographic Information Systems, Graduate Certificate (College of Letters and Science)

The Certificate in Geographic Information Systems is designed for those individuals seeking careers as GIS specialists, providing geographic data management, spatial analysis, and GIS system management support to professionals in a broad range of disciplines, such as criminal justice, health services, city and regional planning, civil and environmental engineering, transportation, and marketing. Certificate holders will seek
employment in positions such as “GIS Specialist,” “GIS Analyst,” or “GIS Coordinator.”

The School of Architecture and Urban Planning, and the College of Letters and Science jointly offer the certificate. The core courses (12 credits) focus on the structure of geographic data, components for managing geographic information systems, spatial analysis, and delivery of geographic information through maps and displays. Students select the remaining 6 credits for the certificate from electives, which may include an internship, in areas such as remote sensing, map-making, and data management systems.

Upon completion of the certificate courses, a student is awarded the certificate which qualifies for 5 credential points in the GIS Certification Institute’s standards for professional certification in GIS.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Application**
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Credits and Courses**
A minimum of 6 credits each in Urban Planning and Geography courses are required for completion of the certificate. To earn the Certificate, one must complete six semester-long courses (with a minimum of 18 credits), satisfy graduate school criteria for successful completion and maintain at least a B (3.00) average among the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1 (select one course)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>Tier 2 (select one course)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 826</td>
<td>Intermediate Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td></td>
</tr>
<tr>
<td>Tier 3 (Select two courses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 704</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 705</td>
<td>Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 748</td>
<td>ArcGIS Programming with Python</td>
<td></td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
<td></td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td></td>
</tr>
<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques:</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography (if not selected above)</td>
<td>4</td>
</tr>
</tbody>
</table>
### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last two years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

#### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

#### Gainful Employment Disclosure Information


### Geography, BA

In high school, your Geography class probably focused on maps and locations. But, the field is so much broader than that. Geography bridges the physical and human world, using scientific methods to explain and predict people’s impact on the planet and the planet’s impact on people.
UWM’s Geography students graduate with an exceptional ability to intellectually and technologically process spatial data about space, place, and people and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together facts and diverse values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics being tackled by today’s geographers include climate change, population shifts, land use patterns, and animal migration. These are all examples of how geographers focus on human’s relationship with man-made and natural environments.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technology-based system for capturing, storing, and checking different types of data in relation to its position on Earth. It is a tool that enhances decision-making in both the private and public sector. For example, a rural town in the Rocky Mountains may use GIS data to determine where and when to place fire stations and personnel based on the patterns of forest fires and permanent and tourist populations. A corporation may use GIS to plan the location and layout of a new store based on shopping and traffic patterns.

At UWM, students can focus on GIS within the major, or choose another specialty track: urban geography with a focus on cities; environmental geography for those interested in natural resources; or physical systems with an emphasis on the natural features of earth such as climate, soil, and plants. Or, students can take the broad major and explore a little bit of each of these areas.

Related Programs

For the teaching major and minor, see the School of Education (p. 311) section of this catalog. A related special major is International Studies (p. 1000). Related certificate programs include Asian Studies (p. 751), Latin American and Caribbean Studies (p. 1043), and Middle Eastern and North African Studies (p. 1103).

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A

Achieve a grade of C or better in the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>

Or equivalent course

Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College
of Letters & Science does not have a specific requirement for a writing
course beyond English 102, but students must complete the university-wide
requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students
must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3
   credits with a grade of C or higher in one of the following courses or
   an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as
repeats of one another. Students cannot receive credit for both
courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above
   chosen from courses in Mathematics, PHILOS 211, or Letters and
   Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete
the BA, students must take one of the L&S approved courses. Not all of
the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement.
Language courses (including American Sign Language) other than
English taken in high school may be used to satisfy all or part of this
requirement. One year of high school language equates to one semester
of college work.

Completion of the L&S Language Requirement also satisfies the
university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-
requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
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<td>POL SCI 392</td>
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<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Complete 3 courses (min. 9 cr) in a single foreign language
(not including literature-in-translation or American Sign Language)
at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an
international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of
3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences
(SS), and Natural Sciences (NS/NS+); and a course with the Cultural
Diversity (CD/+), L&S students must complete the Breadth
requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Students must attain a 2.0 GPA in all credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>GEOG 114</td>
<td>Geography of Race in the United States</td>
<td></td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Globalization and Economic Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of these courses in physical or environmental geography:

- GEOG 120 Our Physical Environment
- GEOG 125 Introduction to Environmental Geography

Select one of the following regional or world geography courses:

- GEOG 213 Geography of Asia
- GEOG 214 Wisconsin
- GEOG 216 Geography of the United States and Canada
- GEOG 231 Muslim Geographies: Identities and Politics
- GEOG 309 Nationalities and Nations of the World
- GEOG 330 Europe: East and West
- GEOG 400 Population, Environment, Development
- GEOG 410 Gendered Geographies
- GEOG 421 Geography of Latin America
- GEOG 470 Geography of South Asia
- GEOG 531 Insurgent Cities - Global Geographies of Urban Social Movements

The following two courses are required for all tracks.

- GEOG 215 Introduction to Geographic Information Science
- GEOG 247 Quantitative Analysis in Geography

Select one of the following techniques courses:

- GEOG 403 Remote Sensing: Environmental and Land Use Analysis
- GEOG 405 Cartography
- GEOG 437 Qualitative Methods in Geography
- GEOG 525 Geographic Information Science
- GEOG 547 Spatial Analysis

The following course is required for all tracks.

- GEOG 600 Perspectives on Geography (satisfies L&S research requirement)

Select one of the following:

- GEOG 650 Geography Field Work
- GEOG 654 Tropical Field Course
- GEOG 489 Internship in Geography, Upper Division
- GEOG 497 Study Abroad

Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.0 GPA in all geography credits attempted at UWM. In addition, students
Select a Major Track 9-15
Total Credits 33-40

1. Students in the Urban Track are required to take GEOG 140.
2. Students in the Physical Systems Track must take GEOG 120; those in the Environmental Track must take GEOG 125.
3. Students in the Geographic Information Track must take GEOG 525.
4. Fieldwork is only offered in the June summer session. Check with the department for further details.
5. Students must obtain PRIOR approval to select either of these two courses. With approval, students can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses: GEOG 489 or GEOG 497.

**Major Tracks**

**Geographic Information Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two upper-level techniques courses 7-8

GEOG 698 GIS/Cartography Internship 3

Total Credits 14-15

1. In addition to GEOG 525, listed in requirement of the core curriculum, (7-8 cr. beyond core)

**Urban Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td></td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

GEOG 464 Environmental Problems
GEOG 520 Physical Geography of the City
GEOG 564 Urban Environmental Change and Social Justice

Total Credits 9

**Environmental Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>9</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

**Physical Systems Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Karst Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Climates of the Past and Climate Change</td>
<td></td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 6 credits

Total Credits 15

1. Any two upper-division (numbered 300 or above) courses approved for natural science credit that have not been selected to fulfill the above requirements. A maximum of 3 credits from outside Geography may be applied to the major.

**Globalization, Cultures, and Societies Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td></td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td></td>
</tr>
</tbody>
</table>

**Regional:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 231</td>
<td>Muslim Geographies: Identities and Politics</td>
<td></td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Gendered Geographies</td>
<td></td>
</tr>
</tbody>
</table>

**World:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 231</td>
<td>Muslim Geographies: Identities and Politics</td>
<td></td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Gendered Geographies</td>
<td></td>
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</tbody>
</table>

**Urban:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
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<td>GEOG 441</td>
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<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
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</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

1. In addition to the regional or world course taken to satisfy major core requirement above.
2. If the course taken to meet core requirement is a Regional course, then the course selected to complete track requirement should be a World course, or vice versa, for a total of one Regional course and one World course in the major.
3. If not selected for core requirement above.
Cross-listed Courses

The following courses offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4664 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Kristin Sziarto at sziarto@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/geography/undergraduate/

Geography, BS

In high school, your Geography class probably focused on maps and locations. But, the field is so much broader than that. Geography bridges the physical and human world, using scientific methods to explain and predict people’s impact on the planet and the planet’s impact on people.

UWM’s Geography students graduate with an exceptional ability to intellectually and technologically process spatial data about space, place, and people and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together facts and diverse values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics being tackled by today’s geographers include climate change, population shifts, land use patterns, and animal migration. These are all examples of how geographers focus on human’s relationship with man-made and natural environments.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technology-based system for capturing, storing, and checking different types of data in relation to its position on Earth. It is a tool that enhances decision-making in both the private and public sector. For example, a rural town in the Rocky Mountains may use GIS data to determine where and when to place fire stations and personnel based on the patterns of forest fires and permanent and tourist populations. A corporation may use GIS to plan the location and layout of a new store based on shopping and traffic patterns.

At UWM, students can focus on GIS within the major, or choose another specialty track: urban geography with a focus on cities; environmental geography for those interested in natural resources; or physical systems with an emphasis on the natural features of earth such as climate, soil, and plants. Or, students can take the broad major and explore a little bit of each of these areas.

Related Programs

For the teaching major and minor, see the School of Education (p. 311) section of this catalog. A related special major is International Studies (p. 1000). Related certificate programs include Asian Studies (p. 751), Latin American and Caribbean Studies (p. 1043), and Middle Eastern and North African Studies (p. 1109).
Requirements
Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/). The College requires that students must complete at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ENGLISH 102</strong> College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MATH 102</strong> Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MATH 103</strong> Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MATH 105</strong> Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MATH 108</strong> Algebraic Literacy II</td>
<td></td>
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<tr>
<td></td>
<td><strong>MATH 111</strong> Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>or PHILOS 111</strong> Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MATH 116</strong> College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Or equivalent course</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits (At least two courses including one lab) 6

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>3 or more credits in any 200-level or above Math course</strong></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
</tbody>
</table>

VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Geography Major Requirements

Students must meet with the department’s undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the five tracks:

1. Geographic Information
2. Urban
3. Environmental
4. Physical Systems
5. Globalization, Cultures, and Societies
Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.0 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.0 GPA in all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>GEOG 114</td>
<td>Geography of Race in the United States</td>
<td></td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Globalization and Economic Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of these courses in physical or environmental geography:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 120</td>
<td>Our Physical Environment</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Introduction to Environmental Geography</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following regional or world geography courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 214</td>
<td>Wisconsin</td>
<td></td>
</tr>
<tr>
<td>GEOG 216</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 231</td>
<td>Muslim Geographies: Identities and Politics</td>
<td></td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Gendered Geographies</td>
<td></td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 531</td>
<td>Insurgent Cities - Global Geographies of Urban Social Movements</td>
<td></td>
</tr>
</tbody>
</table>

The following two courses are required for all tracks:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following techniques courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>3-4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 437</td>
<td>Qualitative Methods in Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td></td>
</tr>
</tbody>
</table>

The following course is required for all tracks.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 600</td>
<td>Perspectives on Geography (satisfies L&amp;S research requirement)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 14-15

In addition to GEOG 525, listed in requirement of the core curriculum, students must obtain PRIOR approval to select either of these two courses. With approval, students can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses: GEOG 489 or GEOG 497.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 14-15

1 Students in the Urban Track are required to take GEOG 140.
2 Students in the Physical Systems Track must take GEOG 120; those in the Environmental Track must take GEOG 125.
3 Students in the Geographic Information Track must take GEOG 525.
4 Fieldwork is only offered in the June summer sessions. Check with the department for further details.
5 Students must obtain PRIOR approval to select either of these two courses. With approval, students can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses: GEOG 489 or GEOG 497.

Major Tracks

Geographic Information Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two upper-level techniques courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td></td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td></td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Globalization and the City</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 9

Environmental Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>9</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
</tbody>
</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>9</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
</tbody>
</table>
GEOG 564  Urban Environmental Change and Social Justice

Total Credits 9

Physical Systems Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select three of the following:</td>
<td>9</td>
</tr>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Karst Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Climates of the Past and Climate Change</td>
<td></td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 6 credits 1

Total Credits 15

1 Any two upper-division (numbered 300 or above) courses approved for natural science credit that have not been selected to fulfill the above requirements. A maximum of 3 credits from outside Geography may be applied to the major.

Globalization, Cultures, and Societies Track

Select any three of the following regional, world, or urban geography courses, with at least two at the 400-level or above. 1,2,3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Regional:</td>
<td>9</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td></td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>World:</td>
<td></td>
</tr>
<tr>
<td>GEOG 231</td>
<td>Muslim Geographies: Identities and Politics</td>
<td></td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Gendered Geographies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urban:</td>
<td></td>
</tr>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td></td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td></td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

1 In addition to the regional or world course taken to satisfy major core requirement above.

2 If the course taken to meet core requirement is a Regional course, then the course selected to complete track requirement should be a World course, or vice versa, for a total of one Regional course and one World course in the major.

3 If not selected for core requirement above.

Cross-listed Courses

The following courses offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Kristin Sziarto at sziarto@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/geography/undergraduate/

Geography, MA
Related Certificates
- Certificate in Geographic Information Systems (GIS) (http://uwm.edu/graduateschool/geographic-information-systems-certificate/)

Overview
The Department of Geography offers both master’s and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department’s overall strengths are aligned along a theme of “Changing Environments,” with three major axes, each responsive to areas with strong demand for new professionals:

- **Urban Environments**: This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world’s population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.

- **Physical Geography and Environmental Studies**: This area addresses the interactions among natural forms and processes on the earth’s surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses discuss and analyze the distribution and processes of earth surface landforms (geomorphology), soils (pedology), plants and animals (biogeography), water (hydrology), and long-term atmospheric conditions (climatology). Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.

- **Geographic Information Science (GIS)**: This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth’s surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of GIS in urban, regional, and environmental planning, policy making, and public health.

In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the School of Architecture and Urban Planning.

While the master’s program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department’s unique PhD program is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program’s urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused on “the city” as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

Facilities and Resources
The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government depository for maps; and a Soils and Physical Geography Laboratory, which supports research projects among several UWM departments.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the School of Freshwater Sciences, the Center for Economic Development, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, Women's and Gender Studies, the Digital Humanities Lab, the Center for 21st Century Studies, and University Information Technology Services.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Master of Arts in Geography
The MA normally is awarded to those who concentrate in cultural or human geography. Students must elect to pursue either the MA or MS
option during their first semester in the program. Students may also elect to complete their degree through either a thesis or non-thesis track.

**Admission**
An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor’s degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.
2. Submission to the Geography department of three letters of recommendation supporting application.
4. Departmental approval, based on thorough evaluation of applicant’s potential for professional development.

**Credits and Courses**

**Standard Track**
The Standard Track is the only option for MA students. Both M.A. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option.

The two options have the same coursework requirements except for the capstone project. Details are provided below.

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 747</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Introduction to Techniques of Research and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>12 credits in graduate-level (700 and above)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>courses approved by the student’s advisor (at least 3 of these credits must be in one Geography graduate seminar course)</td>
<td>12</td>
</tr>
<tr>
<td>4 credits in the student’s capstone project (see Thesis Option and Non-Thesis Option information below)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Non-Thesis Option**
This option is intended for students who are not interested in continuing their graduate education beyond the master’s degree, and plan to seek professional employment. The M.A. degree will normally be awarded upon completion of this option. Those who wish a M.S. degree must formally petition the Graduate Faculty in writing, providing a rationale as to why that degree is appropriate to their program. The student must complete at least 4 credits of graduate work (approved by the student’s advisor) as either:

- Two research papers (GEOG 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

**OR**

- A graduate internship (GEOG 798 or GEOG 889) (note that GEOG 810 is a prerequisite for GEOG 889). Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student’s academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

**Additional Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Chair of the Graduate Student Administrative Committee is a temporary advisor, within the first semester the student selects an advisor in the student’s specialization.
**Time Limit**
This program is designed to be completed in two years of full-time attendance. The Graduate School requires that all degree requirements be completed within five years of initial enrollment.

**Geography, MA/Library and Information Science, MLIS**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. **All degree requirements of each component must be satisfied.**
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA Geography**
The MLIS/MA Geography Coordinated Degree Program prepares students for positions as map librarians. Graduates of the program are qualified to assume positions as curators and staff in map collections of universities, governmental agencies, and industry.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Credits and Courses**
The MA in Geography normally has a minimum requirement of 30 credits from regular geography courses (which includes 4 capstone/thesis credits). For the coordinated MA Geography/MLIS degree program, however, students can substitute 6 credits in information studies courses for 6 credits of geography. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Geography courses specified below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 747</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Introduction to Techniques of Research and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 889</td>
<td>Internship in Geography</td>
<td>4</td>
</tr>
<tr>
<td>or GEOG 999</td>
<td>Independent Work</td>
<td></td>
</tr>
</tbody>
</table>

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**

The Geography Department offers opportunities for fieldwork that may count toward these requirements. In addition to off-campus fieldwork, the American Geographical Society Collection at the UWM Golda Meir Library provides many unique opportunities for map librarianship fieldwork and is an appropriate site for an internship.

Graduates of the program are qualified to assume positions as curators and staff members in map collections of universities, governmental agencies, and industry. In cases where map collections are not of sufficient size to warrant separation as distinct collections, knowledge of how to store, classify, and retrieve maps will be a valuable set of skills that enhance the qualifications of the information professional.

**Important**
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

**Geography, Minor**

In high school, your Geography class probably focused on maps and locations. But, the field is so much broader than that. Geography bridges the physical and human world, using scientific methods to explain and predict people’s impact on the planet and the planet’s impact on people.

UWM’s Geography students graduate with an exceptional ability to intellectually and technologically process spatial data about space, place, and people and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together facts and diverse values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics being tackled by today’s geographers include climate change, population shifts, land use patterns, and animal migration. These are all examples of how geographers focus on human’s relationship with man-made and natural environments.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technology-based system for capturing, storing, and checking different types of data in relation to its position on Earth. It is a tool that enhances decision-making in both the private and public sector. For example, a rural town in the Rocky Mountains may use GIS data to...
determine where and when to place fire stations and personnel based on the patterns of forest fires and permanent and tourist populations. A corporation may use GIS to plan the location and layout of a new store based on shopping and traffic patterns.

Related Programs
For the teaching major and minor, see the School of Education (p. 311) section of this catalog. A related special major is International Studies (p. 1000). Related certificate programs include Asian Studies (p. 751), Latin American and Caribbean Studies (p. 1043), and Middle Eastern and North African Studies (p. 1103).

Requirements
The geography minor requires the completion, with a GPA of 2.0 or above in all geography courses attempted at UWM, of 18 credits in geography courses, at least 9 of which must be at the 300 level or above taken in residence at UWM. In addition, students must attain a 2.0 GPA on all courses attempted in the minor, including transfer work. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Required</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Select one of the following:</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td></td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>GEOG 114</td>
<td></td>
<td>Geography of Race in the United States</td>
<td></td>
</tr>
<tr>
<td>GEOG 115</td>
<td></td>
<td>Globalization and Economic Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 140</td>
<td></td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 213</td>
<td></td>
<td>Geography of Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 231</td>
<td></td>
<td>Muslim Geographies: Identities and Politics</td>
<td></td>
</tr>
<tr>
<td>GEOG 120</td>
<td>or GEOG 125</td>
<td>Our Physical Environment Introduction to Environmental Geography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 215</td>
<td></td>
<td>The Language of Maps</td>
<td></td>
</tr>
<tr>
<td>GEOG 225</td>
<td></td>
<td>Cartography</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 9 credits

Total Credits 18

Cross-listed Courses
The following courses offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Associate Professor Kristin Sziarto at sziarto@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/geography/undergraduate/

Geography, MS

Related Certificates
• Certificate in Geographic Information Systems (GIS) (http://uwm.edu/graduateschool/geographic-information-systems-certificate/)

Overview
The Department of Geography offers both master’s and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department’s overall strengths are aligned along a theme of “Changing Environments,” with three major axes, each responsive to areas with strong demand for new professionals:

• Urban Environments: This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world’s population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.

• Physical Geography and Environmental Studies: This area addresses the interactions among natural forms and processes on the earth’s surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses discuss and analyze the distribution and processes of earth surface landforms (geomorphology), soils (pedology), plants and animals (biogeography), water (hydrology), and long-term atmospheric conditions (climatology). Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.

• Geographic Information Science (GIS): This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth’s surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of GIS in urban, regional, and environmental planning, policy making, and public health.

In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the School of Architecture and Urban Planning.

While the master’s program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department’s unique PhD program
is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program’s urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused on “the city” as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

Facilities and Resources
The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government depository for maps; and a Soils and Physical Geography Laboratory, which supports research projects among several UWM departments.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the School of Freshwater Sciences, the Center for Economic Development, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, Women’s and Gender Studies, the Digital Humanities Lab, the Center for 21st Century Studies, and University Information Technology Services.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Master of Science in Geography
The MS is awarded to those who concentrate in physical geography. Students must elect to pursue either the MA or MS option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the MS. Students may also elect to complete their degree through either a thesis or non-thesis track.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor’s degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.
2. Submission to the Geography department of three letters of recommendation supporting application.
4. Departmental approval, based on thorough evaluation of applicant’s potential for professional development.

Credits and Courses

Track Options
MS students may choose the Standard or the GIS Professional Track.

A. Standard Track
The Standard Track is the only option for MA students. Both MA. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option.

The two options have the same coursework requirements except for the capstone project. Details are provided below.

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 747</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Introduction to Techniques of Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>12 credits in graduate-level (700 and above) courses approved by the student’s advisor (at least 3 of these credits must be in one Geography graduate seminar course)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>4 credits in the student’s capstone project (see Thesis Option and Non-Thesis Option information below)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

The student also must attend Geography colloquia regularly while in residence and must present her/his thesis research at a departmental colloquium.

Thesis Option
The student must register at least 4 credits of GEOG 890 Research and Master’s Thesis (approved by the student’s advisor). In addition, the student, through the advisor, must present a proposed thesis topic and Advisory Committee to the Graduate Faculty of the Department for its approval. For students electing the M.S. option, the Faculty will also judge the appropriateness of the thesis topic for that degree.

The student must then write a thesis acceptable to the major professor for presentation to the Advisory Committee (two faculty members in addition to the advisor). The defense date for the thesis must be set at least two weeks prior to the Graduate School deadline for completion of all work. The thesis must be approved by the advisor and delivered to the committee at least six weeks prior to the defense date. Students must submit the thesis to the advisor in sufficient time to meet the committee deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student’s committee. In addition to submission of the final thesis to the Graduate School (according to their required procedure), the candidate must present the Geography...
Department with a professionally hard-bound copy which meets Graduate School specifications for quality. This copy will remain on file in the department.

Non-Thesis Option
This option is intended for students who are not interested in continuing their graduate education beyond the master’s degree, and plan to seek professional employment. The M.A. degree will normally be awarded upon completion of this option. Those who wish a M.S. degree must formally petition the Graduate Faculty in writing, providing a rationale as to why that degree is appropriate to their program. The student must complete at least 4 credits of graduate work (approved by the student’s advisor) as either:

- Two research papers (GEOG 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

OR

- A graduate internship (GEOG 798 or GEOG 889) (note that GEOG 810 is a prerequisite for GEOG 889). Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student’s academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

B. GIS Professional Track
This track is intended for students who plan to seek professional employment in the field of GIS and are not interested in continuing their graduate education beyond the master’s degree. Only M.S. degrees are offered in the GIS professional track.

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 747</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 704</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 826</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 705</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GEOG 798</td>
<td>GIS/Cartography Internship (capstone project)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 30

The student also must attend Geography colloquia regularly while in residence.

Elective Courses

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques:</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 804</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 904</td>
<td>Remote Sensing and Urban Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 827</td>
<td>Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 716</td>
<td>Watershed Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 730</td>
<td>Geography of Transportation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 748</td>
<td>ArcGIS Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Requirements

A. Standard Track
Comprehensive Examination
In combination with the thesis defense (or after completion of the work for the non-thesis option), the student must pass a final oral examination over the field of geography, administered by the student’s Advisory Committee. Scheduling this examination during the summer is not permitted except under unusual academic circumstances and with the approval of the department faculty.

B. GIS Professional Track
Capstone Project (GEOG 798)
Students pursuing the GIS professional track should conduct at least 180 hours of internship. The internship should be related to the field of GIS and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper at the colloquium series.

Geography, PhD

Related Certificates
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**Facilities and Resources**

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**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) to be considered for admission to the program. Students from a wide range of disciplinary backgrounds may be admitted. They must present the following credentials:

1. Master's degree.
2. Statement of interest in the program.
3. Substantial evidence of scholarly potential and commitment.
4. Three letters of recommendation, submitted to the Geography Department.
5. Recent (within five years) GRE (http://uwm.edu/graduateschool/admission/#gre) scores.

In some instances where the applicant's record demonstrates exceptional promise, the Department will consider applications for admission to the PhD program directly from a BA/BS degree. Such admission does not constitute a waiver of any of the requirements indicated below.

The Graduate Program Committee, during the admission process, will evaluate an applicant's academic background and will assign deficiencies based on a comparison of his/her background and the proposed specific area of study as outlined in the student's statement of interest. In general, the department seeks students with:

1. Potential for planning and successfully completing an independent scientific research project, as evidenced by a master's thesis and/or other appropriate materials;
2. Basic statistical analysis skills;
3. Interest and/or ability in evaluating problems related to the urban environment with a spatial framework; and
4. Interest in examining research questions within a multi-disciplinary (human/physical) team environment.

**Reapplication**

A student who receives the master's degree from UWM must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

**Graduate Student Orientation**

All new students are expected to participate in the department orientation program, offered during the week prior to the start of fall classes. If a
student enters the program in the spring, s/he must participate in this program during the subsequent fall semester. New students will be paired with an experienced student mentor during their first year. Instructional opportunities sponsored by the Center for Instruction and Professional Development (CIPD) and the Preparing Future Faculty (PFF) initiative will be offered to all teaching assistants and other interested students enrolled in the doctoral program.

Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM with a minimum GPA of 3.0.

Under the guidance of the advisory committee, the chair of which serves as the student’s major professor, the student plans a program of study leading to the development of a special interest. All programs of study contain the following four elements: core concepts and methods, thematic focus, elective courses (as needed to meet the total credit requirement), and dissertation.

Core Concepts and Methods

Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM with a minimum GPA of 3.0.

Under the guidance of the advisory committee, the chair of which serves as the student’s major professor, the student plans a program of study leading to the development of a special interest. All programs of study contain the following four elements: core concepts and methods, thematic focus, elective courses (as needed to meet the total credit requirement), and dissertation.

Core Concepts and Methods

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches:</td>
<td>3</td>
</tr>
<tr>
<td>Select any Geography graduate seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 827</td>
<td>Qualitative Research</td>
<td></td>
</tr>
</tbody>
</table>

Thematic Focus

| Select three courses | 9-12 |

Electives

Select courses taken from geography or cognate fields to achieve the total of 54 credits required for the Ph.D. degree.

Total Credits: 50-58

1 Students must have the approval of their advisors for the elective courses.

Thematic Focus

Students, in consultation with their advisor, must select a minimum of three courses that together confer specialized expert knowledge in one thematic area. The courses selected do not have to come from a single list, and they may include other courses not listed.

Local Places: Problems and Issues

Relevant courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 945</td>
<td>The Internal Structure of the City</td>
<td>3</td>
</tr>
</tbody>
</table>

URB STD 981  Argument in Urban Studies Scholarship  3
URBPLAN 720  Urban Development Theory and Planning  3

Global and Regional Perspectives

Relevant courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 742</td>
<td>Urban and Regional Dimensions of Globalization</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 744</td>
<td>Cities, Regions, and Globalization</td>
<td>3</td>
</tr>
</tbody>
</table>

Monitoring and Modeling Urban Dynamics

Relevant courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 411</td>
<td>Physical Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis (if not taken in core)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 650</td>
<td>Geography Field Work</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 804</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 827</td>
<td>Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 904</td>
<td>Remote Sensing and Urban Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 730</td>
<td>Modelling Techniques for Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Techniques (Elective Course)

Students who have not taken a research techniques course in their prior graduate program should consult with their faculty advisor regarding their enrollment in GEOG 910, an introduction to theoretical and practical aspects of geographic research, funding, presentation, and publication. Ideally, students should enroll in this course after their first full year of courses, but no later than their fourth semester, after they have completed the majority of Core requirements. The course is designed to assist students with the initiation of their PhD. dissertation research.

Additional Requirements

Major Advisor and Committee

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations; the student may not register for any courses without that advisor’s prior approval. The Chair of the Graduate Student Administrative Committee is a temporary advisor; within the first semester the student selects an advisor within the area of specialization. Each student, preferably after completion of the first year of study, also will select four additional members of the faculty/qualified professions to form his/her advisory committee. A majority of the committee members must be core
geography faculty members. Affiliated faculty members from other departments may serve as major advisors.

**Foreign Language Requirement**
If appropriate to the proposed area of study, the student’s committee will require that s/he acquire the necessary competence in a foreign language. The major professor will supervise the completion of this requirement with input from the committee as necessary.

**Dissertation**
The candidate must write an acceptable dissertation that demonstrates formulation, design, and independent execution of a significant research project. The dissertation must make an original contribution to knowledge in the field of geography. It may focus on geographical theory, methodology, data, or analysis, or it may involve collaborative approaches, interdisciplinary syntheses, and integrative solutions appropriate to the focus of the student’s graduate program of study.

**Portfolio Evaluation**
By the end of the first full academic year in the program, each student will undergo a formal portfolio evaluation by the members of the faculty in order to determine the student’s readiness to continue in the program. This evaluation will include inspection of all written work produced in courses, commentary by relevant instructors, and any other materials the student chooses to submit. The possible outcomes of this review will be:

1. **Pass** (student continues with the normal second year of their program);
2. **Fail** (student is recommended for academic dismissal); or
3. **Probation** (student is counseled to take specific courses or other actions to achieve the necessary readiness to continue in the program). In the case of a recommendation of Probation, the student will be re-evaluated after an additional semester. If this second review does not result in a decision to PASS, the student will be recommended for academic dismissal.

**Residence**
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. Residence credit cannot be earned at the master’s level or before the master’s degree is awarded.

**Doctoral Preliminary Examination**
Each student will undergo a comprehensive written and oral examination by the end of his/her sixth semester in the program. The student’s committee, advisor, and proposed dissertation topic must be approved formally by the Geography departmental faculty prior to the scheduling of these exams. A Proposed PhD Program/Plan of Study must be filed with the major professor prior to the preliminary examination. Successful completion of these exams leads to candidacy, when work on the dissertation can commence.

The student’s advisor, as chair of the advisory committee, will organize and administer the examination. The content of the examination will be determined by the area of the student’s interest. The scope of the examination will be determined by the student’s advisory committee. A student judged qualified by the majority of the five-member advisory committee will be admitted to candidacy. A student judged not qualified by the majority of the advisory committee will not be admitted to candidacy at the time of the examination but will be given an opportunity to retake the examination once, after a waiting period of at least one semester. At the discretion of the advisory committee, the second examination will be either a complete reexamination or a partial examination over the parts in which the student failed to qualify. A student receiving a negative vote of the advisory committee after the second examination will be recommended for academic dismissal. The student will be informed of the reasons for failure to qualify.

**Presentations**
Each student must make two presentations at department colloquia. The first presentation will be scheduled early in the student’s program; it is designed to give the student experience in making formal presentations. The second presentation will communicate the student’s dissertation research topic and preliminary results.

**Dissertation**
As mentioned above, the candidate must write an acceptable dissertation. The defense date for the dissertation must be set at least two weeks prior to the Graduate School deadline. The dissertation must be approved by the major professor and delivered to the student’s advisory committee at least six weeks prior to the defense date. A student must submit the dissertation to the advisor in sufficient time to meet the committee’s deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student’s committee.

**Dissertation Defense**
The candidate must, as the final step toward the degree, defend the dissertation before the advisory committee. If the candidate passes the defense, the advisory committee will recommend to the Graduate School that a degree of Doctor of Philosophy be conferred.

**Submission of Completed Dissertation**
In addition to submission of the final dissertation to the Graduate School (according to its required procedure), the candidate must present to the Geography Department a professionally hard-bound copy that meets Graduate School specifications for quality. This copy will remain on file in the department.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

**Special Issues for Directly Admitted Students**
Students directly admitted to the doctoral program after completion of their bachelor’s degree will not earn a master’s degree during the course of their studies. Further, formal doctoral status (which affects stipend rates and the ability to fulfill the residency requirement) will not be granted until the student has completed 24 credits in the program. Lastly, no more than 12 dissertation credits can be used to satisfy the 54-credit doctoral degree requirement.

**Geosciences**
The Department of Geosciences is an educational community of students, researchers, and teachers focused on scientific examination of the Earth. We ask important questions, create new knowledge, and communicate information about Earth’s properties and processes through deep-time. Through our research, study, and teaching, we aim to help create a scientifically informed society and enable our students to achieve their professional goals. We welcome all who share our intellectual curiosity about the Earth; our diverse community includes
people from a variety of intellectual, religious, class, cultural, and political perspectives.

Programs

- Geosciences, BA (p. 955)
- Geosciences, BS (p. 958)
- Geosciences, Minor (p. 962)
- Geosciences, MS (p. 962)
- Geosciences, PhD (p. 963)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Bowles</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, San Diego</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Bruce E. Brown</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Barry I. Cameron</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northern Illinois University</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Douglas S. Cerkauer</td>
<td>Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dyanna Czech</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>David Edgington</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Oxford</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Timothy J. Grundl</td>
<td>Professor</td>
<td>PhD</td>
<td>Colorado School of Mines</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Mark T. Harris</td>
<td>Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>John Isbell</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>William F. Kean</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Norman P. Lasca</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Michigan-Ann Arbor</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Victoria McCoy</td>
<td>Visiting Assistant Professor</td>
<td>PhD</td>
<td>Yale University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lindsay McHenry</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Gregory Mursky</td>
<td>Professor</td>
<td>PhD</td>
<td>Stanford University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Charles Paradis</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Tennessee-Knoxville</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Peter M. Sheehan</td>
<td>Adjunct Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Robert W. Taylor</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Pennsylvania State University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Keith Sverdrup</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-San Diego</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Shangping Xu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Geosciences, BA

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

The BA degree in Geosciences requires fewer math, physics, and chemistry prerequisites and upper-level courses than the BS degree. It is designed for students who expect to use the earth sciences in preparation for a career in law, business, government, primary or secondary schools, or natural resources, or for those who start the Geosciences program later in their college careers. The BA degree in Geosciences is more easily combined with complementary majors for students to pursue a double or a triple major.

Geosciences majors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

Required outdoor field work prepares students for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.
To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major may also be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Arts</strong></td>
<td>3</td>
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<tr>
<td></td>
<td>Select 3 credits</td>
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</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
</tbody>
</table>

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

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1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UW-Madison higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111 or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

or equivalent

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

---

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part B, listed above.

---

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.
III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+), L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements

All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least
a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 302</td>
<td>Elementary Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 414</td>
<td>Structural Geology (satisfies L&amp;S research requirement)</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 455</td>
<td>Field Geology (normally taken over the summer)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 511</td>
<td>Stratigraphy and Sedimentation</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives
Select 9 additional credits from Geosciences Department courses at the 300 level or above

Other Requirements
Physics and Chemistry
Select at least one laboratory course in physics and one laboratory course in chemistry selected from the courses required for the Geosciences B.S. Option.

Total Credits 43-44

1 GEO SCI 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly at geo-info@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/geosciences/undergraduate/

Geosciences, BS
Many students are already familiar with Geosciences through what is commonly called “earth science” in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

The Bachelor of Science (BS) degree in Geosciences is designed to prepare students to become professional Earth scientists in a wide range of disciplines, as well as to enter graduate programs for further advanced training. The BS curriculum includes more allied science requirements than the BA and is designed for students who plan professional employment or advanced study in the geosciences. Graduates seek employment with environmental and water resource management; energy and mineral industries; and government agencies.

Geosciences majors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
• Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

Required outdoor field work prepares students for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/).

The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
</tbody>
</table>

Part A

Achieve a grade of C or better in the following course:

<table>
<thead>
<tr>
<th>ENGLISH 102</th>
<th>College Writing and Research (or equivalent)</th>
</tr>
</thead>
</table>

Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A

Achieve a grade of C or better in one of the following:

<table>
<thead>
<tr>
<th>MATH 102</th>
<th>Mathematical Literacy for College Students II</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
</tbody>
</table>

or PHILOS 111 Introduction to Logic - Critical Reasoning

MATH 116 College Algebra

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (At least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.
Individual departments or programs may require higher GPAs for graduation.

**Major Requirements**

All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 302</td>
<td>Elementary Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 316</td>
<td>Introduction to Geophysics</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 414</td>
<td>Structural Geology (satisfies L&amp;S research requirement)</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 455</td>
<td>Field Geology (normally taken over the summer)</td>
<td>4-8</td>
</tr>
<tr>
<td>GEO SCI 511</td>
<td>Stratigraphy and Sedimentation</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives**

Select two of the following: 8

- GEO SCI 400 Water Quality
- GEO SCI 401 General Soil Science
- GEO SCI 409 Process Geomorphology
- GEO SCI 443 Glacial and Pleistocene Geology
- GEO SCI 463 Physical Hydrogeology
- GEO SCI 464 Chemical Hydrogeology
- GEO SCI 563 Field Methods in Hydrogeology

Select 12 additional credits from Geosciences Department courses at the 300 level or above 12

**Other Requirements**

**Mathematics**

- MATH 231 Calculus and Analytic Geometry I 4

Students are encouraged to take the following:

- MATH 232 Calculus and Analytic Geometry II
- MATH 233 Calculus and Analytic Geometry III
- MATH 234 Linear Algebra and Differential Equations

**Chemistry**

- CHEM 102 General Chemistry 5

Students are encouraged to take the following course as well as courses in organic and inorganic chemistry.

- CHEM 104 General Chemistry and Qualitative Analysis

**Physics**

Select one of the following options: 5

- Option 1:
  - PHYSICS 120 & PHYSICS 121 General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)
  - PHYSICS 209 & PHYSICS 214 Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)

Students are advised strongly to increase their scholastic breadth by selecting courses from among several subdisciplines of the geosciences, in consultation with Geosciences Department faculty.

Students who are interested in general geology are encouraged to include courses from among the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 515</td>
<td>Physical Sedimentology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 520</td>
<td>Introduction to Paleontology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 614</td>
<td>Advanced Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 635</td>
<td>Volcanology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 636</td>
<td>Geochronology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 638</td>
<td>Advanced Igneous Petrology</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who are interested in environmental geology or hydrogeology are encouraged to include courses from among the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 696</td>
<td>Topics in the Geological Sciences:</td>
<td>1-3</td>
</tr>
<tr>
<td>GEO SCI 697</td>
<td>Seminar in the Geological Sciences:</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Students who are interested in environmental geology or hydrogeology are encouraged to include courses from among the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 400</td>
<td>Water Quality</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 443</td>
<td>Glacial and Pleistocene Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 562</td>
<td>Environmental Surface Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates
to campus' general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Department directly at geo-info@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/geosciences/undergraduate/

Geosciences, Minor

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

Geoscience minors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

For the minor, outdoor field work is not required but is recommended as preparation for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor consists of a minimum of 18 credits in geosciences courses, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits at the 200 level or above, with at least 9 of them at the 300 level or higher taken in residence at UWM</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

Contact Information

Current Students contact the Department directly, geo-info@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/geosciences/undergraduate/

Geosciences, MS

The Department of Geosciences offers the Master of Science (MS) degree program, which trains students for professional practice and/or
continued graduate study. With the MS program of study, you will develop into a professional that is not just a technical worker, but a leader that can manage and carry out complex projects that include development, analysis, interpretation, and communication of results. The typical course of study takes two years to complete.

The Geosciences MS program provides our students with a strong scientific background and intensive research experience, culminating in a formal thesis. The MS degree requires both coursework and research. These help the student build observation, critical thinking, quantification, and presentation skills. Our goal is for students to gain deep knowledge in a subfield of geosciences and a broad understanding of the overall discipline. We strive to prepare students for scientific careers in academia, government, or industry.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**

An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission/](http://uwm.edu/graduateschool/admission/)) plus the following departmental requirements to be considered for admission to the program:

- Undergraduate preparation consisting of one year each of: college chemistry, college physics, and calculus; one summer of field training in geology for students majoring in geology.
- Undergraduate grade point average of 3.0 (4.0 scale).
- Submission of scores on the Graduate Record Examination ([http://uwm.edu/graduateschool/admission/#gre](http://uwm.edu/graduateschool/admission/#gre))(General Test).

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. A geology student who lacks field training must acquire the training not later than the summer following initial enrollment.

**Credits and Courses**

Minimum degree requirement is 30 graduate credits, at least 24 of which must be earned in formal course credits and up to 6 of which may be earned through an acceptable thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formal Course Credits</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>GEO SCI 990 *</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

* A graduate student is allowed to register for a maximum of nine 990 research credits, no more than 6 of which may be counted toward the 30-credit requirement.

### Additional Requirements

All students in their second or later year are required to present a progress report annually to the Department.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned a temporary advisor at the time of initial enrollment and requests a faculty member to serve as the thesis advisor after selecting an area of specialization.

**Proposal for Thesis**

Prior to the formal undertaking of thesis research, the student must prepare a written proposal for the thesis problem including an estimate of costs to be incurred. Copies of the proposal are to be distributed to the faculty advisor and the Department reading file. One copy is to be placed in the student’s permanent Department file. An abstract of the proposal is to be distributed to each Department faculty member for comment and criticism.

**Thesis**

The student must write an acceptable thesis embodying the results of original research completed under the direction of the advisor.

**Comprehensive Examination**

The student must pass a comprehensive examination, either oral or written or both. In part a defense of the thesis, the examination covers the student’s entire graduate program of studies. At the option of the student, the part of the examination consisting of the presentation of the results of thesis research may be open to other graduate students.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

### Geosciences, PhD

The Department of Geosciences offers the Doctor of Philosophy (PhD) degree program, which is designed to produce scholars capable of independent research that deepens humanity’s understanding of science, as well as practitioners capable of applying their training to achieve sound and pragmatic solutions to real problems in the field. As a PhD student, you will become an expert and scholar in your field who is starting to generate an international reputation as an independent scientist that can devise and conduct creative research, mentor and teach, and contribute to the advancement of your field. Students in the doctoral program will normally spend four years completing their degree.

The Geosciences PhD program provides our students with a strong scientific background and intensive research experience, culminating in a formal dissertation. The PhD degree requires both coursework and research. These help the student build observation, critical thinking, quantification, and presentation skills. Our goal is for students to gain deep knowledge in a subfield of geosciences and a broad understanding of the overall discipline. We strive to prepare students for scientific careers in academia, government, or industry.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
To be considered for admission to the program, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements:

1. Hold a master's degree in one of the natural sciences, engineering, or mathematics or have equivalent experience.
2. Have an appropriate background in aspects of the geosciences relevant the intended field of study.
3. Submit scores from the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (general test).
4. Arrange to have at least three (3) letters of recommendation sent to the Graduate Coordinator of the Department of Geosciences.

Exceptional students without a M.S. degree may be considered for admission. A student who holds a master’s degree from UWM must formally reapply for admission to the Graduate School before continuing studies toward the Ph.D.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Credits taken from formal master’s study</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>At least 21 formal graduate credits beyond the master’s degree</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Elective and GEO SCI 998 Doctoral Dissertation credits</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

Doctoral students must earn 54 credits beyond the bachelor’s degree, of which 24 credits may be taken from formal coursework completed as part of the master’s study. At least 21 graduate credits beyond the master’s degree must be earned in formal coursework.

Each student must prepare a formal Program of Study to be submitted to the Graduate School within the first semester in the program. Courses are selected in consultation with the student’s advisor with approval from the Doctoral Committee. Students are strongly advised to take courses from each of their committee members prior to taking the doctoral preliminary examination. For full time students, coursework should be completed within 4 semesters after admission to the Ph.D. program. In unusual situations, this timetable may be extended beyond 4 semesters. A timetable for coursework completion for part time students will be established on an individual basis.

**Additional Requirements**

**Residency Requirement**
The Graduate School requires satisfaction of a residency requirement. This involves completing at least 8 graduate credits in 2 consecutive semesters or 6 graduate credits in 3 consecutive semesters (including summer sessions) while in full doctoral status at UWM. In addition, at least half of the graduate credits required for the Ph.D. must be earned at UWM.

**Quantitative Skill**
A working knowledge of computer programming, statistics, numerical methods, or GIS appropriate to the student's field of study is required. Standards for this requirement will be established by the student’s Doctoral Committee. Undergraduate courses taken to meet this requirement do not apply to the course requirements for the Ph.D.

**Doctoral Committee**
The membership of the Doctoral Committee will be established in the student’s first semester. The Committee must consist of the following: the doctoral student’s advisor as chair (or co-advisors as co-chairs); at least three additional graduate faculty members from the Geosciences Department; and at least one member from outside the student’s fields of specialization. The student is required to arrange a meeting with the Doctoral Committee at least once each year.

The student may request a change of advisor if another faculty member is available, willing, and able to assume that role. If this change involves a significant modification of the area of specialization or research, the student’s record will be reexamined to determine whether the student’s background is sufficient for the new specialty. If it is not, it may be necessary for the student to withdraw from the program and reapply in the new specialty. Normally such a change of direction will not be allowed once the dissertation proposal has been defended.

**Doctoral Preliminary Examination**
Advancement to dissertation status requires that students must pass a doctoral preliminary examination and then develop and successfully defend a dissertation proposal. The doctoral preliminary examination is administered in two parts: a set of written exams and a follow-up oral exam. The structure of the examination will be established by the student’s Doctoral Committee. It must be passed prior to the completion of 24 credits in the program and must demonstrate knowledge in the fields of geology and related sciences defined by the Doctoral Committee. The written and oral exams are taken after the residency requirement is fulfilled.

Subsequently, the student must present to the Doctoral Committee a written proposal in NSF format for her/his dissertation research. At a minimum, it should provide an overview of and approach to the problem being addressed, a budget, and appropriate bibliographic references. The dissertation proposal should be defended within one semester of completion of the preliminary exam. Students who successfully pass all three elements of the doctoral preliminary examination are admitted to doctoral dissertation status.

**Annual Presentation of Results**
Each dissertator is required to make a 30-minute presentation of research results at a Geosciences Colloquium each year. Dissertators also are required to make a 50-minute colloquium presentation of the results of the completed doctoral research prior to the dissertation defense.

**Dissertation**
The candidate must present a written dissertation reporting the results of independent, original research carried out under the direction of the major professor. Prior to a defense, the dissertation must be reviewed by a Reading Committee consisting of the major professor and at least two other members of the Doctoral Committee. Information regarding dissertation deadlines, preparation, and review of the dissertation is available from the Student Services Office of the Graduate School.

**Dissertation Defense**
The student first will present research results in a colloquium. Then the dissertation must be orally defended before the entire Doctoral Committee. The defense may include questions related to any of the dissertator’s fields of study. If the dissertation is defended and the oral examination is passed to the satisfaction of a majority of the Doctoral Committee, the candidate is passed and recommended for the degree.
Global Health, Undergraduate Certificate (College of Letters and Science)

Anne Dressel, Director, Center for Global Health Equity, Nursing, Certificate Coordinator
Deatra Holloway, Senior Advisor, Nursing, CUN 129

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students better comprehend the interdisciplinary approach to understanding and addressing global health issues.

Eligibility

The Global Health Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>World Regions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>GEGEO 110</td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>POL SCI 106</td>
<td>Politics of the World’s Nations</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 103</td>
<td>World Society</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 6 credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Fieldwork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Internship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Abroad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Independent Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NURS 475</td>
<td>Global Health: Ethics and Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
</tbody>
</table>
Global Studies, BA

UWM's Global Studies program combines the benefits of a liberal arts education with the training of a professional program to prepare students to work internationally or domestically on matters that cross borders and cultures. The College of Letters and Science and several of UWM's professional schools have formed a partnership to offer students this unique program of study that will prepare them for positions of global leadership in our increasingly interconnected world.

At UWM, Global Studies is a rigorous degree program incorporating classes across disciplines, including an extensive foreign language requirement. This challenging and rewarding program prepares students to excel in a job market that demands knowledge across subject areas and a culturally sensitive approach. The analytical, communication, cultural knowledge and language skills acquired through the Global Studies degree will serve students well in any area of work.

Global Studies students choose from one of five tracks:

• Global Communications - with a focus on language, culture and the technology of modern, global communication (option for a joint degree between the College of Letters and Science and the School of Information Studies)
• Global Management - focusing on business and the world economy (joint degree between the College of Letters and Science and the Sheldon B. Lubar School of Business)
• Global Security - dealing with aspects of conflict and change such as water resources, war, human rights, borders, and global health
• Global Sustainability - where students develop expertise in matters of the environment and government systems
• Global Health - a track for students interested in global careers in healthcare, international aid, healthcare policy, international health education, health outreach, and international health regulations (option for a joint degree between the College of Letters and Science and the College of Nursing)

Programs

• Global Studies, BA (p. 966)
• Global Studies, Minor (p. 977)

Requirements

Major Requirements

To earn the Bachelor of Arts in Global Studies, students in all tracks must complete 120 credits, including a minimum of 36 credits in upper-division courses (numbered 300 or above), while fulfilling the requirements below. GPAs of at least 2.000 overall and 2.500 in the selected track are required for graduation. Students also are responsible for completing the University-wide General Education Requirements (p. 29).

Beyond the University-wide General Education requirements, students must also complete an additional 6 credits of Humanities GER courses.

<table>
<thead>
<tr>
<th>Fieldwork</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3 credits at the 300-level or above) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through &quot;practical&quot; experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed.</td>
<td></td>
</tr>
<tr>
<td>The fieldwork requirement can be fulfilled in one of three ways:</td>
<td></td>
</tr>
<tr>
<td>• Internship – A number of global health internships are available through the International Studies Major (INTLST 450), as well as other departments and organizations.</td>
<td></td>
</tr>
<tr>
<td>• Study Abroad – UWM offers a number of Global Health study abroad programs, through several departments.</td>
<td></td>
</tr>
<tr>
<td>• Independent Study – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.</td>
<td></td>
</tr>
</tbody>
</table>

Global Studies

The College of Letters and Science, together with several of UWM's professional schools, offers a Bachelor of Arts in Global Studies. Letters and Science also offers a minor in Global Studies. These programs are designed to combine the acquisition of leadership, management, and communication skills with an in-depth understanding of global issues. Students in these programs will be uniquely prepared for careers in an increasingly integrated world.

<table>
<thead>
<tr>
<th>AFRIC 351</th>
<th>Sexuality, Gender, and Health in Africa and the Diaspora</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 439</td>
<td>Culture and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>BMS 204</td>
<td>Plagues, Pandemics, and Epidemics</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
<td>3</td>
</tr>
<tr>
<td>NURS 440</td>
<td>Nursing Specialty</td>
<td>2</td>
</tr>
<tr>
<td>NURS 497</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Global Food Security and Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 683</td>
<td>Healthcare of Immigrants and Refugees</td>
<td>3</td>
</tr>
<tr>
<td>NURS 684</td>
<td>Death and Dying Around the World</td>
<td>3</td>
</tr>
<tr>
<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 374</td>
<td>Health, Wealth, and Democracy</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
</tbody>
</table>
and an additional 6 credits of Social Science GER courses, some of which are required or elective courses in the major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 550</td>
<td>Global Studies Integrated Capstone:</td>
<td>3</td>
</tr>
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</table>

Global Studies Capstone

Global Communications Track Core

<table>
<thead>
<tr>
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<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
<td>3</td>
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</table>

GLOBAL 451 | Access, Security, and Intercultural Contexts in Global Communications | 3 |

Select two of the following:

- BUS ADM 230 | Introduction to Information Technology Management | 3 |
- COMMUN 103 | Public Speaking | 3 |
- COMMUN 105 | Business and Professional Communication | 3 |
- ENGLISH 205 | Business Writing | 3 |
- ENGLISH 206 | Technical Writing | 3 |
- ENGLISH 214 | Writing in the Professions: (with appropriate subtitle) | 3 |
- ENGLISH 431 | Topics in Advanced Communications: (with appropriate subtitle) | 3 |
- ENGLISH 435 | Rhetoric and Professional Writing | 3 |
- ENGLISH 436 | Technical Documentation | 3 |
- ENGLISH 449 | Internship in the Humanities | 3 |
- JAMS 201 | Media Writing | 3 |
- INFOST 110 | Introduction to Information Science and Technology | 3 |
- INFOST 250 | Internet Communications and Information Transfer | 3 |

Global Communications Track Electives

Select 27 credits (see below) | 27|

Total Credits | 45

1 At least one writing course must be selected.

Global Communications Electives

Students must complete 27 credits from the following lists of courses, with a minimum of 15 credits taken from List A. There is no minimum number of credits that must be selected from Lists B-E. Electives from Lists C-E should be courses about the country or region in which the student will pursue language study and/or study abroad. Any individual course may count only once toward degree requirements. Students in this track who are awarded their degree by L&S only must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

List A

(A minimum of 15 credits must be completed from the following):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
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<tr>
<td>ANTHRO/LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
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<td>ART 227</td>
<td>Design Workshop: (with appropriate subtitle)</td>
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<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management (if not selected above)</td>
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<tr>
<td>BUS ADM 335</td>
<td>Visual System Development</td>
<td>3</td>
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<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 433</td>
<td>Information Technology Project Management</td>
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<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>3</td>
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<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar: (with appropriate subtitle)</td>
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<td>Course Code</td>
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<td>BUS ADM 495</td>
<td>Special Topics in Business: (with appropriate subtitle)</td>
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<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td>3</td>
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<tr>
<td>BUS ADM 530</td>
<td>Introduction to eBusiness</td>
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<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
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<td>BUS ADM 533</td>
<td>Information Technology Infrastructure for Business</td>
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<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
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<tr>
<td>COMMUN 192</td>
<td>First-Year Seminar: (&quot;The Digital Mirror&quot; subtitle)</td>
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<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<tr>
<td>COMMUN 380</td>
<td>Honors Seminar: (&quot;The Social History of the Internet&quot; subtitle)</td>
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<td>COMMUN 402</td>
<td>Gender and Communication</td>
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<td>COMMUN 410</td>
<td>Organizational Communication Technology</td>
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<tr>
<td>COMMUN 413</td>
<td>Rhetoric and the Internet</td>
<td>3</td>
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<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
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<td>COMMUN 550</td>
<td>International and Global Communication</td>
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<tr>
<td>COMMUN 655</td>
<td>Cultural Training and Adjustment</td>
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<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
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<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
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<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
<td>2-3</td>
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<td>DANCE 370</td>
<td>World Movement Traditions</td>
<td>2-3</td>
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<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (with appropriate subtitle) (if not selected)</td>
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<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (with appropriate subtitle) (if selected)</td>
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<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing (if not selected)</td>
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<td>ENGLISH 436</td>
<td>Technical Documentation (if not selected)</td>
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<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
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<td>ENGLISH 439</td>
<td>Information Design</td>
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<td>ENGLISH 449</td>
<td>Internship in the Humanities (if not selected)</td>
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<td>FILM 203</td>
<td>Media Workshop: (with appropriate subtitle)</td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
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<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
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<td>FINEART 327</td>
<td>Digital Media Workshop: (with appropriate subtitle)</td>
<td>3</td>
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<td>FLL 216</td>
<td>Survey of Civilization: (with appropriate subtitle)</td>
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<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
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<td>GEOG 225</td>
<td>The Language of Maps</td>
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<td>Introduction to German Translation</td>
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<td>GERMAN 474</td>
<td>German for Professional Purposes</td>
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<td>GERMAN 525</td>
<td>Seminar in Advanced German Translation</td>
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<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
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<td>GLOBAL 448</td>
<td>Intellectual Property in the Global Information Economy</td>
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<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
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<td>ITALIAN 313</td>
<td>Translation: Italian-English, English-Italian</td>
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<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
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<td>JAMS 201</td>
<td>Media Writing (if not selected above)</td>
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<td>JAMS 204</td>
<td>News Writing and Technology</td>
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<td>JAMS 207</td>
<td>Introduction to Advertising and Public Relations</td>
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<tr>
<td>JAMS 210</td>
<td>Jewish and Ethnic Narratives and Identities in Media</td>
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<td>JAMS 231</td>
<td>Publication Design</td>
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<td>JAMS 232</td>
<td>Photographicism</td>
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<td>JAMS 262</td>
<td>Principles of Media Studies</td>
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<td>JAMS 307</td>
<td>Persuasive Media Writing and Production:</td>
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<td>JAMS 320</td>
<td>Integrated Reporting</td>
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<td>JAMS 336</td>
<td>Media Graphics</td>
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<td>JAMS 524</td>
<td>Advertising and Public Relations Campaigns</td>
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<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
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<td>INFOST 110</td>
<td>Introduction to Information Science and Technology (if not selected)</td>
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<td>INFOST 120</td>
<td>Information Technology Ethics</td>
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<td>INFOST 240</td>
<td>Web Design I</td>
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<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
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<td>INFOST 330</td>
<td>Electronic Information Seeking Systems</td>
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<td>INFOST 340</td>
<td>Introduction to Systems Analysis</td>
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<tr>
<td>INFOST 410</td>
<td>Database Information Retrieval Systems</td>
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<td>INFOST 430</td>
<td>Multimedia Application Development</td>
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<td>INFOST 440</td>
<td>Web Application Development</td>
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<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
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<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
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<td>LINGUIS 430</td>
<td>Language and Society</td>
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<tr>
<td>LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
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<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
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<td>RUSSIAN 419</td>
<td>Introduction to Translation: Russian to English</td>
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<td>SOCIOL 327</td>
<td>Data, Technology, and Society</td>
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<tr>
<td>SPANISH 348</td>
<td>Introduction to Translation: English to Spanish</td>
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**List B**

**Topical Electives:**

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<tr>
<td>TRNSLTN 201</td>
<td>Introduction to Translation and Interpreting Studies</td>
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<td>TRNSLTN 400</td>
<td>Consecutive Interpreting</td>
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<td>TRNSLTN 411</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
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<td>TRNSLTN 422</td>
<td>Simultaneous Interpreting</td>
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<td>TRNSLTN 550</td>
<td>Advanced Modes of Interpreting</td>
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<tr>
<td>ANT 115</td>
<td>Topics in Comparative Literature: (with appropriate subtitle)</td>
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**Area Studies Electives:**

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<tr>
<td>FILMSTD/ARTHIST/ENGLISH 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
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<td>FINEART 511</td>
<td>Spatial Interactivity II</td>
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<td>HIST 372</td>
<td>Topics in Global History: (with appropriate subtitle)</td>
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<td>INFOST 150</td>
<td>Introduction to Information Resources on the Internet</td>
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<td>INFOST 210</td>
<td>Information Resources for Research</td>
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<tr>
<td>INFOST 250</td>
<td>Internet Communications and Information Transfer</td>
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<td>INFOST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
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<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
<td>3</td>
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<tr>
<td>JAMS 111</td>
<td>Gender and the Media</td>
<td>3</td>
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<tr>
<td>JAMS 112</td>
<td>Global Media</td>
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<tr>
<td>JAMS 113</td>
<td>Internet Culture</td>
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<td>JAMS 114</td>
<td>Media and Popular Culture</td>
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<td>JAMS 115</td>
<td>Introduction to Media and Politics</td>
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<tr>
<td>JAMS 116</td>
<td>Journalism, Documentary, and Democracy</td>
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<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
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<tr>
<td>JAMS 280</td>
<td>Selected Topics in Mass Communication: (with appropriate subtitle)</td>
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<tr>
<td>JAMS 450</td>
<td>Race and Ethnicity in the Media</td>
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<td>JAMS 460</td>
<td>History of Mass Media</td>
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<td>JAMS 559</td>
<td>Freedom of Expression in the Digital Age</td>
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<td>JAMS 614</td>
<td>Seminar in Media and Public Opinion</td>
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<td>JAMS 615</td>
<td>Seminar in Media and Politics</td>
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<td>JAMS 620</td>
<td>Seminar in Global Media</td>
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<td>JAMS 659</td>
<td>Seminar in Comparative Media Law</td>
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<td>LINGUIS 100</td>
<td>The Diversity of Human Language</td>
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<tr>
<td>LINGUIS 200</td>
<td>Aspects of Language: (with appropriate subtitle)</td>
<td>3</td>
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<td>LINGUIS 210</td>
<td>Power of Words</td>
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<td>Introduction to Linguistics</td>
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<td>LINGUIS 468</td>
<td>Language in its Various Forms: (with appropriate subtitle)</td>
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<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
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<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
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<tr>
<td>SPANISH 341</td>
<td>Introduction to Hispanic Linguistics</td>
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</table>
### List D

**Foreign Language Electives - Up to 6 credits beyond those taken to meet the foreign language requirement of upper-division courses (300 level or fifth semester and above) on contemporary culture or literature in a foreign language may count as electives for this track, provided that the language of instruction is not English. The following are recommended; however, see language program listings in this catalog for a complete list:**

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<tr>
<td>AFRIC 450</td>
<td>Cultural Transmissions: Black Africa and Black America</td>
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<tr>
<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
<td>3</td>
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<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
<td>3</td>
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<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
<td>3</td>
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<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
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<tr>
<td>HIST 281</td>
<td>History of China</td>
<td>3</td>
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<tr>
<td>HIST 392</td>
<td>The History of Southern Africa</td>
<td>3</td>
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<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
</tr>
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<td>JEWISH 328</td>
<td>The Arab-Israeli Conflict</td>
<td>3</td>
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<td>JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
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<td>JEWISH 379</td>
<td>Introduction to Jewish History</td>
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### List E

**Literature-in-Translation – Credits in 100-level courses may be elected only prior to the student's study abroad:**

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<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
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<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
<td>3</td>
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<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
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<td>FRENCH 427</td>
<td>Advanced Written Expression</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 431</td>
<td>Seminar in Literature of the Francophone World: (with appropriate subtitle)</td>
<td>3</td>
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<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (with appropriate subtitle)</td>
<td>1-3</td>
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<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
<td>3</td>
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<tr>
<td>FRENCH 592</td>
<td>Seminar in French Language: (with appropriate subtitle)</td>
<td>3</td>
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<td>GERMAN 145</td>
<td>Views of Germany.</td>
<td>3</td>
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<tr>
<td>GERMAN 331</td>
<td>German Grammar in Practice</td>
<td>3</td>
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<td>GERMAN 332</td>
<td>Presentation and Composition</td>
<td>3</td>
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<tr>
<td>GERMAN 333</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
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<td>GERMAN 334</td>
<td>Introduction to German Studies</td>
<td>3</td>
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<td>GERMAN 360</td>
<td>German for the Global World</td>
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<td>GERMAN 410</td>
<td>German Cultural History</td>
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<tr>
<td>GERMAN 415</td>
<td>Topics in German Studies: (with appropriate subtitle)</td>
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<tr>
<td>GERMAN 474</td>
<td>German for Professional Purposes</td>
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<td>GERMAN 489</td>
<td>Internship in German, Upper Division</td>
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<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
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<td>ITALIAN 629</td>
<td>Major Film Directors: (with appropriate subtitle)</td>
<td>3</td>
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<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture: (with appropriate subtitle)</td>
<td>3</td>
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<td>PORTUGS 457</td>
<td>Seminar in Luso-Brazilian Literature</td>
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<td>Survey of Spanish-American Literature and Civilization</td>
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<td>COMPLIT 230</td>
<td>Literature and Society: (with appropriate subtitle)</td>
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<td>Literature and Film: (with appropriate subtitle)</td>
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<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
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<td>Literatures and Cultures of the Americas: (subtitle)</td>
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<td>Topics in French and Francophone Studies in Translation: (subtitle)</td>
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<td>FRENCH 145</td>
<td>Views of France: (subtitle)</td>
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<td>Literature of the French-Speaking World in Translation: (subtitle)</td>
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<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World: (with appropriate subtitle)</td>
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<td>German Life and Civilization: Part II: (subtitle)</td>
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<td>Seminar on Scandinavian Culture: (with appropriate subtitle)</td>
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<td>Views of Italy: (with appropriate subtitle)</td>
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<td>ITALIAN 229</td>
<td>Italian Cinema</td>
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<td>ITALIAN 245</td>
<td>Italian Fictions: (with appropriate subtitle)</td>
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<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture: (subtitle)</td>
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<td>Topics in Italian Literature and Culture in Translation: (with appropriate subtitle)</td>
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<td>Japanese Culture and Its Effect on Language</td>
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<td>POLISH 236</td>
<td>Polish Culture in its Historical Setting</td>
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<td>Luso-Brazilian Literature in Translation: (with appropriate subtitle)</td>
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<td>RUSSIAN 245</td>
<td>Russian Life and Culture</td>
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**Global Health Track**

To earn the Bachelor of Arts in Global Studies through the Global Health track, students must complete the requirements listed below. Students in this track must complete at least 36 credits at the 300-level or higher, of which 24 credits must be in the College of Letters and Science.

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<td>Introduction to Nutrition</td>
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<td>Global Patterns of Disease</td>
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<td>Global Health: Ethics and Human Rights</td>
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<td>Culture and Global Health</td>
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<td>ANTHRO 560</td>
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<td>SOCIOL 361</td>
<td>Research Methods in Sociology</td>
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<td>HCA 502</td>
<td>Healthcare Delivery Systems: National and International Perspectives</td>
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<tr>
<td>NURS 204</td>
<td>Global Maternal and Child Health: From Evidence to Action</td>
<td>3</td>
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<tr>
<td>NURS 620</td>
<td>Global Food Security and Systems</td>
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<tr>
<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
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<td>PH 319</td>
<td>Introduction to Health Disparities</td>
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**Global Health Track Electives**

Select 18 credits (see below) 18

Total Credits 48

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<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
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<td>Food and Culture</td>
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<td>Globalization, Culture, and Environment</td>
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<td>Medical Anthropology</td>
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<td>Humanitarianism in Global Perspective</td>
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<td>Medicine and Pharmaceuticals in the Global Age</td>
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<td>Introduction to Conservation and Environmental Science</td>
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<td>Introduction to Food Studies</td>
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<td>Globalization and Economic Development</td>
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<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
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<td>Human Impact on the Environment</td>
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<td>Conservation of Natural Resources</td>
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<td>Globalization and the City</td>
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<td>Urban Environmental Change and Social Justice</td>
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<td>Medicine and Pharmaceuticals in the Global Age</td>
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<td>Cultural Diversity in Health Care</td>
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<td>Healthcare of Immigrants and Refugees</td>
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<td>Death and Dying Around the World</td>
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<td>Global Health Governance: Key Players, Financing and Challenges</td>
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<td>Ethical Issues in Health Care</td>
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<td>Health, Wealth, and Democracy</td>
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<td>Introduction to Health Disparities (if not selected above)</td>
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<td>SOCIOL 331</td>
<td>Sociology of Health Care</td>
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<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
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**Global Management Track**

To earn the Bachelor of Arts in Global Studies through the Global Management track, students must fulfill the following requirements:
Global Management Track Core

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<td>Introduction to Financial Accounting</td>
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<td>BUS ADM 210</td>
<td>Statistical Modeling in Business Analytics</td>
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<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
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<td>BUS ADM 330</td>
<td>Organizations</td>
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<td>BUS ADM 350</td>
<td>Principles of Finance</td>
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<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
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<td>BUS ADM 465</td>
<td>International Marketing</td>
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<td>Principles of Microeconomics</td>
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<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
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<td>ENGLISH 205</td>
<td>Business Writing</td>
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<td>GLOBAL 541</td>
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<td>MATH 211</td>
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<td>or MATH 208</td>
<td>Quantitative Models for Business</td>
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<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
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<td>or GLOBAL 311</td>
<td>Contexts for Global Management</td>
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Global Security Electives

Students must complete 24 credits from the following lists, with at least 15 credits selected from List A. There is no minimum number of credits that must be taken from List B.

### List A Electives

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<td>Medical Anthropology</td>
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<td>The Global Politics of Human Rights</td>
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<td>Cultural and Human Ecology</td>
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<td>The Human Economy</td>
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<td>Cross-Cultural Study of Religion</td>
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<td>Issues in Contemporary Art:</td>
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<td>BMS 232</td>
<td>Introduction to Nutrition</td>
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<td>Public Health Microbiology</td>
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<td>Public Health Microbiology Lab</td>
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<td>Introduction to Conservation and Environmental Science</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<td>COMMUN 363</td>
<td>Communication in Human Conflict</td>
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<td>Negotiation Skills Workshop (if not selected above)</td>
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<td>COMMUN 550</td>
<td>International and Global Communication</td>
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<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)</td>
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<td>Introduction to Mediation (if not selected above)</td>
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<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
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<td>COMPLIT 232</td>
<td>Literature and Politics: (with appropriate subtitle)</td>
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<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (with appropriate subtitle)</td>
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<td>Literatures and Cultures of the Americas:</td>
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<td>Current Issues in Criminal Justice: (with appropriate subtitle)</td>
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<td>Comparative Criminal Justice</td>
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<td>Advanced Topics in Comparative Ethnic Studies: (with appropriate subtitle)</td>
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<td>Global Violence, Disease, and Death</td>
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<td>Muslim Geographies: Identities and Politics</td>
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<td>Nationalities and Nations of the World</td>
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<td>General Climatology</td>
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<td>Population, Environment, Development</td>
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<td>Cities of the World: Comparative Urban Geography</td>
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<td>Environmental Problems</td>
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<td>GEOG 540</td>
<td>Globalization and the City</td>
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<td>Economic Growth and Sustainable Development in Africa</td>
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<td>First-Year Seminar: (with appropriate subtitle)</td>
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<td>Historical Roots of Contemporary Issues: (with appropriate subtitle)</td>
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<td>The Korean War</td>
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<td>Revolution in China</td>
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<td>History of Japan Since 1600</td>
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<td>Great Issues of Politics</td>
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<td>Western European Politics</td>
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<td>Brazilian Politics and Society</td>
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<td>The Arab-Israeli Conflict</td>
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<td>WGS 200</td>
<td>Introduction to Women’s and Gender Studies: A Social Science Perspective</td>
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Global Sustainability Track
To earn the Bachelor of Arts in Global Studies through the Global Sustainability track, students must complete 51-56 credits in the requirements listed below. Students in this track must complete at least 36 credits in upper-division (numbered 300 or above) courses, of which 24 credits must be in L&S.

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<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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<td>Principles of Macroeconomics</td>
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<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
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<td>The Politics and Policy of Sustainability</td>
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<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
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<td>Statistical Modeling in Business Analytics</td>
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<td>Earth, Air, Fire and Water</td>
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<td>Application of Science Interpretation</td>
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<td>CES 571</td>
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<td>The Economics of Water</td>
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<td>Aquatic Ecosystem Dynamics</td>
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</table>
The graduation survey is conducted online for a limited period of time during the fall, spring, and summer terms. Students who are about to complete or who have finished all coursework and need to take the survey should contact Christine Wolf (cawolf@uwm.edu).

**Graduation Survey & Post Study Abroad Assessment**

All Global Studies degree and minor students are required to complete an assessment assignment and a graduation survey upon completion of their required coursework. This assessment process allows Global Studies students to reflect on their experience while providing important information to help improve the program.

The graduation survey is conducted online for a limited period of time during the fall, spring, and summer terms. Students who are about to complete or who have finished all coursework and need to take the survey should contact Christine Wolf (cawolf@uwm.edu).

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Global Studies Degree**

Honors in the Global Studies Degree is different from all-university honors and signifies that a student has attained a significant level of achievement in their specific academic program. While the exact number of students who receive Honors in the Global Studies Degree will vary from year to year, on average recipients can be considered to rank among the top 10% of Global Studies graduates. Eligibility requirements for Honors in the Global Studies Degree are:

- GPA of 3.000 or higher for all graded UWM credits attempted;
- GPA of 3.500 or higher for all courses required in the Global Studies degree;
- GPA of 3.750 or higher for all upper-level courses required in the Global Studies degree (minimum of 15 credits);
- GPA of 3.750 or higher for all Global courses (minimum of 18 credits).

Non-UWM/transfer credits are excluded from GPA calculations for Honors in the Global Studies Degree.

**Honors in the College of Letters and Science**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Letters & Science Advising at (414) 229-4654
Prospective Students contact a Letters & Science Admissions Counselor or Christine Wolf

Phone: (414) 229-7711
let-sci@uwm.edu
cawolf@uwm.edu

https://uwm.edu/global-studies/

Global Studies, Minor
The Global Studies minor at UWM-Milwaukee provides an integrated international education experience incorporating Global Studies courses, an overseas experience, foreign language, and other internationally focused coursework. It is a particularly attractive option for students wishing to add a global perspective to their major, no matter what it may be.

At UWM, the Global Studies minor is a rigorous program that incorporates classes across disciplines, a required experience abroad and foreign language study. This challenging and rewarding program prepares students to excel in a job market that demands knowledge across subject areas and a culturally sensitive approach. With this minor, students enhance their analytical, communication, foreign language, and cross-cultural knowledge. This modern skill set prepares tomorrow’s young professionals for future careers in a wide variety of industries and for many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through studying abroad or overseas internships, which may be completed for credit as part of the program. These overseas experiences, coupled with interdisciplinary coursework, often open up new opportunities, making the Global Studies minor a dynamic and practical pairing with most majors at UWM.

Requirements
A minimum of 9 credits for the minor must be taken at the 300 level or above. These credits can include foreign language or additional study abroad coursework. At least 9 credits must be completed in residence at UWM. Credits earned in a UWM study abroad or exchange program count toward this requirement. No more than 9 credits from another major, minor, or certificate program may be counted toward the Global Studies minor. The College of Letters & Science requires that students achieve at least a 2.0 cumulative GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including transfer work. The program also requires students to complete an exit survey prior to graduation. See the Global Studies information in the Inter-School/College section of the catalog for details on completion of the exit survey.

The Global Studies Minor consists of at least 18 credits, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics (SS)</td>
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<tr>
<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology (SS)</td>
<td>3</td>
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</table>

Foreign Language
Select at least four university-level semesters of a single foreign language

Study Abroad
Select one of the following with approval from a Global Studies advisor:
- Overseas academic experience
- Internship outside of the U.S.

Global Content Electives
Select 6 credits (see below)
Total Credits 18

1 Retrocredits may be used to fulfill this requirement. (Note that a placement test must be taken and at least one 3-credit, university-level foreign language course must be completed successfully in order to earn retrocredits, according to foreign language departmental requirements.)

Approved Global Content Electives
Additional electives may be approved by a Global Studies advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRIC 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3</td>
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<tr>
<td>AFRIC 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
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<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 565</td>
<td>Selected Texts/Topics in African &amp; African Diaspora Studies: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>AIS/ANTHRO/GLOBAL 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
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<tr>
<td>ANTHRO 250</td>
<td>Women's Roles in Cross-Cultural Perspective</td>
<td>3</td>
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<td>Anthro 3XX</td>
<td>“Peoples and Cultures” series</td>
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<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
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<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
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<tr>
<td>ANTHRO/362</td>
<td>System Failure: Globalization and Language Extinction</td>
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<tr>
<td>ANTHRO/GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
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<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
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<td>COMMUN 550</td>
<td>International and Global Communication</td>
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<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)</td>
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<td>COMMUN 655</td>
<td>Cultural Training and Adjustment</td>
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<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
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<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (with appropriate subtitle)</td>
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<td>CRM JST 291</td>
<td>Current Issues in Criminal Justice: (&quot;International Terrorism&quot; subtitle)</td>
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<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
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<td>ECON 353</td>
<td>Economic Development</td>
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<td>ECON 454</td>
<td>International Trade</td>
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<td>ECON 455</td>
<td>International Finance</td>
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<td>ENGLISH 316</td>
<td>World Cinema: (subtitle)</td>
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<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (with appropriate subtitle)</td>
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<td>FILMSTD/ JEWISH 350</td>
<td>Global Jewish Film and Television: (subtitle)</td>
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<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization: (subtitle)</td>
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<td>FRENCH 426</td>
<td>Growing Up French</td>
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<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (with appropriate subtitle)</td>
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<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
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<td>GEOG 213</td>
<td>Geography of Asia</td>
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<td>GEOG 225</td>
<td>The Language of Maps</td>
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<td>Nationalities and Nations of the World</td>
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<td>GEOG 330</td>
<td>Europe: East and West</td>
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<td>Conservation of Natural Resources</td>
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<td>GEOG 400</td>
<td>Population, Environment, Development</td>
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<td>GEOG 462</td>
<td>Cultural Geography of Latin America</td>
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<td>GEOG 464</td>
<td>Environmental Problems</td>
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<td>GEOG 470</td>
<td>Geography of South Asia</td>
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<td>GEOG 540</td>
<td>Globalization and the City</td>
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<td>GERMAN 334</td>
<td>Introduction to German Studies</td>
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<td>GERMAN 410</td>
<td>German Cultural History</td>
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<tr>
<td>GERMAN 415</td>
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<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
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<td>GLOBAL 321</td>
<td>The Global City in History</td>
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<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
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<td>System Failure: Globalization and Language Extinction</td>
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<td>GLOBAL 371</td>
<td>Rethinking Global Security</td>
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<td>Cities in the Global Economy</td>
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<td>The Global Politics of Human Rights</td>
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<td>Intellectual Property in the Global Information Economy</td>
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<td>Access, Security, and Intercultural Contexts in Global Communications</td>
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<td>Strategies for Realizing Security in Global Contexts</td>
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<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
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<td>Advanced Independent Study: 1-3</td>
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<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
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<td>The Vietnam War</td>
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<td>HIST 372</td>
<td>Topics in Global History: (with appropriate subtitle)</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
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<td>HIST 392</td>
<td>The History of Southern Africa</td>
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<td>HIST 393</td>
<td>History of Mexico</td>
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<td>HIST 395</td>
<td>History of Japan Since 1600</td>
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<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
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<td>ITALIAN 229</td>
<td>Italian Cinema</td>
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<td>Italian Fictions: (subtitle)</td>
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<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture</td>
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<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
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<td>ITALIAN 357</td>
<td>Topics in Italian Culture in Translation: (with appropriate subtitle)</td>
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<td>ITALIAN 457</td>
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<td>ITALIAN 629</td>
<td>Major Film Directors: (with appropriate subtitle)</td>
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<td>JAMS 562</td>
<td>Media Studies and Culture</td>
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<td>JAMS 620</td>
<td>Seminar in Global Media</td>
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<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
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<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
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<td>POLISH 236</td>
<td>Polish Culture in its Historical Setting</td>
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<td>POL SCI 300</td>
<td>Western European Politics</td>
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<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
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<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
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<td>POL SCI 316</td>
<td>International Law</td>
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FallOf2020

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<td>The Politics of International Economic Relations</td>
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<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations (or UN Summer Seminar)</td>
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<td>POL SCI 339</td>
<td>European Integration</td>
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<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
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<td>POL SCI 343</td>
<td>Asian International Relations</td>
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<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
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<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
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<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
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<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
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<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
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<tr>
<td>POL SCI 423</td>
<td>Conduct of American Foreign Affairs</td>
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<td>PORTUGS 225</td>
<td>Understanding Brazil: (with appropriate subtitle)</td>
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<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture:</td>
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<td>RUSSIAN 245</td>
<td>Russian Life and Culture</td>
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<td>SOCIOL 235</td>
<td>Social Change in the Global Economy</td>
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<td>SPANISH 225</td>
<td>Understanding the Hispanic World:</td>
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<td>SPANISH 491</td>
<td>Topics in Hispanic Culture: (with appropriate subtitle)</td>
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<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
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</tbody>
</table>

1 With approval of Global Studies advisor.

Contact Information

Current Students contact L&S Advising, (414) 229-7711 or let-sci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at

(414) 229-7711 or let-sci@uwm.edu or
Christine Wolf
cawolf@uwm.edu
https://uwm.edu/global-studies/undergraduate/global-studies-minor

History

The study of history involves all aspects of human experience throughout time. The Department of History offers a variety of courses, defined geographically, chronologically, and thematically, through which students acquire both broad and specialized knowledge of the past.

History courses are intended to transmit knowledge about various areas and periods, to address general historical problems, and to make students more capable of reading and analyzing both primary sources and secondary literature. Students learn how to collect information independently, to present material, and to construct arguments in a literate and cogent manner. Courses also are intended to make students more understanding of the complexity of human existence and the reality of human diversity, as well as more prepared to make informed and responsible decisions about issues in the world in which they live. These provide excellent training for professional careers in education, government, business, law, and social work, as well as advanced work in academics.

Programs

- History, BA (p. 980)
- History, MA (p. 987)
- History, MA/Library and Information Science, MLIS (p. 988)
- History, MA: Public History (p. 989)
- History, Minor (p. 993)
- History, PhD (p. 995)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Jasmine Alinder</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Margo J. Anderson</td>
<td>Distinguished Professor Emerita</td>
<td>PhD</td>
<td>Rutgers University</td>
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<tr>
<td>Joe Austin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Russell H. Bartley</td>
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<tr>
<td>James Brundage</td>
<td>Professor Emeritus</td>
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<tr>
<td>David D. Buck</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Rachel Buff</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Christopher Cantwell</td>
<td>Assistant Professor</td>
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<td>Cornell University</td>
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<tr>
<td>Martha Carlin</td>
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<td>University of Toronto</td>
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<td>Greg Carter</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Austin</td>
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<td>Winson Chu</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>David DiValerio</td>
<td>Associate Professor</td>
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<td>University of Virginia</td>
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<tr>
<td>Carolyn Eichner</td>
<td>Associate Professor</td>
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<td>University of California-Los Angeles</td>
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<tr>
<td>Christine Evans</td>
<td>Associate Professor</td>
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<td>University of California-Berkeley</td>
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<tr>
<td>Marcus Filippello</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Davis</td>
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Students of history do not just memorize the past. They ask questions about the past in order to solve problems of the present.

History is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, creative problem-solving, and oral and written communication. History majors collect and analyze evidence to construct arguments, propose new interpretations, formulate conclusions, test hypotheses, and communicate new ideas.

There is no typical job for a history major. Our graduates can be found in all types of companies and in all types of roles, as well as graduate programs in history and other related humanities and social science fields. A student's career choices after college is often guided by how they applied their coursework to real world applications during college. Internships, part-time jobs, and volunteer experiences will help a student network during college and shape their career choices after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

At UWM, undergraduates can work on research projects such as the Encyclopedia of Milwaukee. The opportunity to participate in research as an undergraduate is a distinct advantage for UWM students. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Students intending to major in history are encouraged to enroll in several 100- and 200-level courses. Students may combine a major in history with many of the certificate programs or with another departmental major.

History is also available at UWM as an online major - all of the classes for the major can be competed online if desired, or students can mix-and-match assorted online and traditional-format classes.
Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<td></td>
<td><strong>Oral and Written Communication</strong></td>
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<td><strong>Part A</strong></td>
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<td>Achieve a grade of C or better in the following course:</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<td><strong>Part B</strong></td>
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</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning ¹</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning ¹</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

¹ Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.
2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>3 or more</td>
<td>credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

*Note*: This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed one of the following ways:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research
requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

History Major Requirements
History majors must maintain a 2.0 GPA in all history credits attempted at UWM and a 2.0 GPA in all history credits attempted at all institutions attended, collectively. No more than 6 of the 36 credits applied to the major may be earned in independent study courses (HIST 199 or HIST 699). Note that in all courses taken in the major on a credit/no credit basis (whether applied to the major or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA. History majors must enroll in and complete least 18 credits in courses numbered 300 or above, of which 15 must be taken in residence at UWM.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, HIST 101 counts toward the fulfillment of both requirement #1 and requirement #4.

History majors are required to take 36 credits of coursework distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Select at least 6 credits in European history</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>2. Select at least 6 credits in U.S. history</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3. Select at least 9 credits in non-Western or global history</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>4. Select at least 3 credits in a course dealing with the period before 1500</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5. Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>6. Select at least one course in historical methods from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 293  Seminar on Historical Method: Theory and Approach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 294  Seminar on Historical Method: Research Techniques</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 594  Methods and Theory in the Historical Study of Religion:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 595  The Quantitative Analysis of Historical Data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 596  Maps as Historical Sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Complete HIST 600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 600  Seminar in History:</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 36

1 Course lists delineating approved European, U.S., non-Western or global, and pre-1500 history courses offered at UWM are below.

2 HIST 600 (meets the L&S requirement for a research experience in the major); prerequisite is HIST 293, HIST 294, HIST 594, HIST 595, or HIST 596). Students who complete the senior thesis (see below) may substitute the thesis courses for HIST 600.

Students should pay particular attention to requirement #6. Students will not be permitted to enroll in HIST 600 until after they have taken and passed one of the courses in historical methods listed under #6. This sequence may not be reversed and students cannot take both courses in the same semester. Prospective majors should fulfill the methods requirement at an early stage of their progress in the curriculum, in no case later than the next-to-last semester before they plan to graduate.

Senior Thesis Option
Students choosing this two-semester sequence (HIST 681/HIST 682) write a substantial research paper on a topic of their choice in consultation with a faculty thesis advisor. The prerequisite for HIST 681 is at least one of the following courses: HIST 293, HIST 294, HIST 594, HIST 595, or HIST 596. Students also must receive approval from the faculty thesis advisor and department chair prior to enrolling. With the consent of the faculty thesis advisor and the department chair, history majors with a GPA of 3.333 (B+) or higher in all history credits attempted, including transfer work, may take the thesis sequence in lieu of HIST 600 to satisfy (in part) major requirements and the L&S research requirement. Access and print out the senior thesis proposal form (http://uwm.edu/history/wp-content/uploads/sites/212/2016/01/senior-thesis-form.pdf) (PDF).

Independent Study
Independent study is not a substitute for courses regularly available in the curriculum. Students who wish to enroll in independent study (HIST 199 for freshmen and sophomores; HIST 699 for juniors and seniors) must have a minimum GPA of 2.500 in credits attempted at UWM. It is recommended that students work only with faculty members from whom they previously have taken regular classes. Students may not enroll in HIST 199 or HIST 699 for work already completed. When enrolling in HIST 199 or HIST 699, students shall select the section number of the faculty member who will supervise their work.

After consultation with the supervising faculty member, students must print out and complete an independent study form (http://uwm.edu/history/wp-content/uploads/sites/212/2015/09/independentsudy.pdf) (PDF). This form contains the description of the independent study proposal, and it should be completed during the first two weeks of the semester. The supervising faculty member must approve the proposal and return the signed form to the department office for endorsement by the department chair as well as by the Dean. A student should not take more than three credits of independent study in one semester from the same faculty member. History majors may take no more than 6 of the required 36 credits in History in independent study, and a maximum of 3 credits of independent study may count toward the minor.

Ancient and Medieval History (Pre-1500) Requirements
The following courses satisfy the pre-1500 requirement of the History major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101  Western Civilization: Ancient World to 1500</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 131  World History to 1500</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 175  East Asian Civilization to 1600</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 201  The Ancient World: The Near East and Greece</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 202  The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
HIST 203 The History of Medieval Europe: The Early Middle Ages 3
HIST 204 The History of Medieval Europe: The High Middle Ages 3
HIST 235 English History to 1688 3
HIST 274 Ancient Egyptian Civilization 3
HIST 280 Islamic Civilization: The Formative Period, ca. 500-1258 3
HIST 303 A History of Greek Civilization: The Greek City-State 3
HIST 304 A History of Greek Civilization: The Age of Alexander the Great 3
HIST 307 A History of Rome: The Republic 3
HIST 308 A History of Rome: The Empire 3
HIST 318 Medieval Civilization: The High Middle Ages 3
HIST 319 The Era of the Crusades 3
HIST 320 History of Medieval Warfare 3
HIST 374 History of Ancient China, Earliest Times to 220 A.D. 3
HIST 394 History of Japan to 1600 3

The following variable topic courses satisfy the pre-1500 requirement of the History major if the specific topic deals preponderantly with the era prior to 1500:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 192</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 193</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 199</td>
<td>Independent Study:</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 270</td>
<td>Topics in American History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 290</td>
<td>Topics in Global History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Topics in Gender and History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 399</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 401</td>
<td>Topics in Middle Eastern History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 600</td>
<td>Seminar in History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 681</td>
<td>Senior Thesis I</td>
<td>3</td>
</tr>
</tbody>
</table>

HIST 682 Senior Thesis II 3
HIST 699 Independent Reading: 1-6

Because individual student topics in Hist 600 can vary, that course, with the instructor’s approval, may count toward the pre-1500 requirement for certain students, as determined by the predominant focus of their individual work in the course.

**Cross-Listed Courses**

PORTUGS 360, with the topic "History of Brazil," may be used to fulfill requirements of the undergraduate major or minor in history. It counts as a non-Western/global history course.

**Categorization of Courses by Geographic Area**

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

**European History**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilization: Ancient World to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilization: 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204</td>
<td>The History of Medieval Europe: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 206</td>
<td>Europe and the Modern World: 1815 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 235</td>
<td>English History to 1688</td>
<td>3</td>
</tr>
<tr>
<td>HIST 236</td>
<td>Britain Since 1688: Rise and Decline of a Great Power</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>Poland and its Neighbors, 1795-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 248</td>
<td>The First World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 318</td>
<td>Medieval Civilization: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 319</td>
<td>The Era of the Crusades</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>HIST 320</td>
<td>History of Medieval Warfare</td>
<td>3</td>
</tr>
<tr>
<td>HIST 329</td>
<td>The Roman Catholic Church, 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 330</td>
<td>The Papacy in History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
</tr>
<tr>
<td>HIST 346</td>
<td>Poland and Its Neighbors, 1914-1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 348</td>
<td>Poland and Its Neighbors, 1945 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Modern and Contemporary France</td>
<td>3</td>
</tr>
<tr>
<td>HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictorship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td>3</td>
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<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
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</tr>
<tr>
<td>HIST 375</td>
<td>Contemporary European History, 1945 to the Present</td>
<td>3</td>
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### U.S. History

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 215</td>
<td>History of Capitalism</td>
<td>3</td>
</tr>
<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 243</td>
<td>History of Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 268</td>
<td>History of the American West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 270</td>
<td>Topics in American History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 271</td>
<td>The 1960s in the United States: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 404</td>
<td>Topics in American History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 405</td>
<td>The Age of the American Revolution, 1750-1789</td>
<td>3</td>
</tr>
<tr>
<td>HIST 409</td>
<td>Causes of the Civil War, 1828-1861</td>
<td>3</td>
</tr>
<tr>
<td>HIST 410</td>
<td>Civil War and Reconstruction: The United States, 1861-1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 418</td>
<td>America in Prosperity, Depression and War, 1921-1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 419</td>
<td>America Since 1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
<td>3</td>
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<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 435</td>
<td>Ethnic America: To 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
<td>3</td>
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<tr>
<td>HIST 442</td>
<td>Beer and Brewing in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 445</td>
<td>African Americans from Slavery to Freedom</td>
<td>3</td>
</tr>
<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 448</td>
<td>Baseball in American History</td>
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<tr>
<td>HIST 449</td>
<td>Popular Culture in America, 1800 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
<td>3</td>
</tr>
<tr>
<td>HIST 451</td>
<td>History of Wisconsin</td>
<td>3</td>
</tr>
<tr>
<td>HIST 452</td>
<td>History of Religion in American Life to 1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 453</td>
<td>History of Religion in American Life Since 1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 460</td>
<td>The History of Poverty in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td>3</td>
</tr>
<tr>
<td>HIST 468</td>
<td>The American Feminist Movement</td>
<td>3</td>
</tr>
<tr>
<td>HIST 473</td>
<td>History of Wisconsin Indians</td>
<td>3</td>
</tr>
<tr>
<td>HIST 474</td>
<td>Topics in North American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 475</td>
<td>American Indian History, Law, and Government</td>
<td>3</td>
</tr>
<tr>
<td>HIST 597</td>
<td>Fields and Methods in Public History</td>
<td>3</td>
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</table>

### Non-Western or Global History

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HIST 131</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 141</td>
<td>Global History of the Family, Gender, and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 180</td>
<td>Latin American Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 210</td>
<td>The Twentieth Century: A Global History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 274</td>
<td>Ancient Egyptian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
<tr>
<td>HIST 284</td>
<td>Buddhism Across Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 290</td>
<td>Topics in Global History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 295</td>
<td>Historical Encounters:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 380</td>
<td>Buddhism: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880</td>
<td>3</td>
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</tbody>
</table>
Middle Eastern, or Latin American history. A substantial part of the course's focus includes the study of African, Asian, and Latin American history. The course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, or Latin American history. Therefore, it is important to note that a variable topic area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In some cases, and with the instructor's approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, Middle Eastern, or Latin American history.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 392</td>
<td>The History of Southern Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 401</td>
<td>Topics in Middle Eastern History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 596</td>
<td>Maps as Historical Sources</td>
<td>3</td>
</tr>
<tr>
<td>HIST 396</td>
<td>Decolonization, Revolution, and Independence in African History</td>
<td>3</td>
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</table>

**Geographic Area Determined by Specific Topic**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HIST 192</td>
<td>First-Year Seminar:</td>
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<tr>
<td>HIST 193</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Topics in Gender and History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 399</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
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<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion:</td>
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<tr>
<td>HIST 600</td>
<td>Seminar in History:</td>
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<tr>
<td>HIST 681</td>
<td>Senior Thesis I</td>
<td>3</td>
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<tr>
<td>HIST 682</td>
<td>Senior Thesis II</td>
<td>3</td>
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<tr>
<td>HIST 699</td>
<td>Independent Reading:</td>
<td>1-6</td>
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</table>

The geographic area of concentration in sections of Hist 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor's approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, Middle Eastern, or Latin American history.

**No Geographic Area**

<table>
<thead>
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<tr>
<td>HIST 289</td>
<td>Internship in History, Lower Division</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 293</td>
<td>Seminar on Historical Method: Theory and Approach</td>
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</tr>
<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**History Academic Advising**

For academic advice, as well as for information on how to declare a major or minor in history, visit the undergraduate program web page of the Department of History at uwm.edu/history/undergraduate/ (http://uwm.edu/history/undergraduate/).

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive
all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, history@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/history/undergraduate/

History, MA
The Department of History offers MA and PhD programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government. The Department offers a wide array of geographically, chronologically and thematically defined courses.

At the master’s level, the Department offers four options:

1. A general degree in History;
2. A specialization in Public History for those interested in areas such as museum work, archival administration and historic preservation;
3. A coordinated Master of Arts/Master of Library and Information Science degree program;
4. A specialization in Urban Historical Studies for students who intend to pursue a PhD in Urban Studies or in Urban History.

At the doctoral level, the Department offers the PhD in History.

The Department also participates in the interdisciplinary master’s and doctoral programs in Urban Studies. For more information, see Urban Studies (p. 1189).

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
To be considered for admission, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements:

1. An undergraduate minor or 18 credits in history or equivalent preparation.
2. Two letters of recommendation from persons familiar with the applicant’s scholastic achievement and potential.
3. A sample of the applicant’s written work that demonstrates his or her ability to conduct historical research and/or the ability to analyze critically the work of others.

4. Scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (General Test only).

Please visit the History department’s website for information on the History Department Application (http://www4.uwm.edu/letsci/history/graduate/gradapply.cfm).

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted toward the degree.

Advising
The Director of Graduate Studies provides initial advising for students in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor. Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor normally serves as the chair of the student’s academic review and supervises either the writing of the student’s thesis or the student’s reading for the comprehensive exam.

Credits and Courses
General History Option A: Thesis Option
Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
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</tbody>
</table>

Select 6 credits in two colloquia¹ 6
Select 6 credits in two seminars 6
Select 6 credits in thesis 6
Select 9 credits in electives in consultation with the student’s advisor 9

Total Credits 30

¹ Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Academic Review and Thesis Prospectus
Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option A students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as secondary readers of the student’s thesis. With the assistance of his or her Major Professor, the student must prepare a thesis prospectus in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the thesis prospectus.

General History Option B: Non-Thesis Option
Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:
**Academic Review and Comprehensive Examination Reading List**

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.

**Urban Historical Studies Specialization**

This specialization combines historical approaches with those of the social sciences in studying urban processes, organizations, and society. It is designed to meet the needs of students who intend to enter the interdisciplinary Urban Studies Ph.D. program or a similar program after completion of the Master of Arts degree.

The minimum degree requirement is 33 graduate credits distributed in the following manner:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits in History colloquia (800 numbered courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 additional credits in History seminars (900 numbered course)</td>
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<td></td>
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<tr>
<td>HIST 985</td>
<td>Master’s Thesis Research</td>
<td>6</td>
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<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
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<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
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</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

**Comprehensive Examination**

The student must pass a written and oral comprehensive examination.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Urban Historical Studies Specialization**

**Thesis**

A thesis is required in this specialization.

**Thesis Defense**

The student must pass an oral defense of the thesis.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**History, MA/Library and Information Science, MLIS**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. **All degree requirements of each component must be satisfied.**
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA History**

A Master of Arts in History/Master of Library and Information Science program to prepare students for positions as archivists, 54 credits.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found...
Credits and Courses

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses 18

Total Credits 30

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

History Courses
Within the coordinated degree program, the minimum requirement for the MA in History is 30 graduate credits. Course distribution requirements are the same as those for General History Option A or Option B above, but the 3 elective credits for Option A and 6 of the elective credits for Option B can be selected from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 752</td>
<td>Archival Outreach: Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 850</td>
<td>Seminar in Modern Archives Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

These elective credits also can be used to satisfy degree requirements for the MLIS. For both Option A and Option B, at least 24 credits must be taken in History graduate courses.

General History Option A: Thesis Option
Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in two colloquia 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in two seminars</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in thesis</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits in electives in consultation with the student's advisor</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

General History Option B: Non-Thesis Option
Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in two colloquia (800 numbers)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in two seminars (900 numbers)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 15 credits in electives in consultation with the student’s advisor</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Academic Review and Comprehensive Examination Reading List
Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.

Additional Requirements

Comprehensive Examination
The student must pass a written and oral comprehensive examination.

Thesis (Option A)
Not required, but with the approval of the Director of Graduate Studies in History, the student may substitute a thesis for the comprehensive examination requirement. MA/MLIS students who write a thesis are subject to the Academic Review and Thesis Prospectus requirements outlined above for Option A.

Time Limit
The student must complete all requirements for the coordinated degree within seven years of initial enrollment.

History, MA: Public History
The Department of History offers MA and PhD programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government. The Department offers a wide array of geographically, chronologically and thematically defined courses.

At the master’s level, the Department offers four options:

1. A general degree in History;
2. A specialization in Public History for those interested in areas such as museum work, archival administration and historic preservation;
3. A coordinated Master of Arts/Master of Library and Information Science degree program;
4. A specialization in Urban Historical Studies for students who intend to pursue a PhD in Urban Studies or in Urban History.

At the doctoral level, the Department offers the PhD in History.

The Department also participates in the interdisciplinary master’s and doctoral programs in Urban Studies. For more information, see Urban Studies (p. 1189).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

### Admission

To be considered for admission, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements:

1. An undergraduate minor or 18 credits in history or equivalent preparation.
2. Two letters of recommendation from persons familiar with the applicant’s scholastic achievement and potential.
3. A sample of the applicant’s written work that demonstrates his or her ability to conduct historical research and/or the ability to analyze critically the work of others.
4. Scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (General Test only).

Please visit the History department’s website for information on the History Department Application (http://www4.uwm.edu/letsci/history/graduate/gradapply.cfm).

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted toward the degree.

### Advising

The Director of Graduate Studies provides initial advising for students in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor. Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor normally serves as the chair of the student’s academic review and supervises either the writing of the student’s thesis or the student’s reading for the comprehensive exam.

## Credits and Courses

### General History Option A: Thesis Option

Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia

Select 6 credits in two seminars

Select 6 credits in thesis

Select 9 credits in electives in consultation with the student’s advisor

Total Credits

30

1. Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

### Academic Review and Thesis Prospectus

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option A students are subject to an academic review. The Review is a one-to-two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty who will serve as secondary readers of the student’s thesis. With the assistance of his or her Major Professor, the student must prepare a thesis prospectus in advance of the Review. The Review involves an evaluation of the student’s academic progress in master's coursework, two unrevised course papers, and the thesis prospectus.

### General History Option B: Non-Thesis Option

Minimum degree requirement is 30 graduate credits, of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia (800 numbers)

Select 6 credits in two seminars (900 numbers)

Select 15 credits in electives in consultation with the student’s advisor

Total Credits

30

1. Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

### Academic Review and Comprehensive Examination Reading List

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one-to-two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.

### Urban Historical Studies Specialization

This specialization combines historical approaches with those of the social sciences in studying urban processes, organizations, and society. It is designed to meet the needs of students who intend to enter the interdisciplinary Urban Studies Ph.D. program or a similar program after completion of the Master of Arts degree.

The minimum degree requirement is 33 graduate credits distributed in the following manner:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

The minimum degree requirement is 33 graduate credits distributed in the following manner:
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits in History colloquia (800 numbered courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 additional credits in History seminars (900 numbered course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 985</td>
<td>Master’s Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 33

**Public History Specialization**

Minimum degree requirement is 36 graduate credits, 18 of which must be taken in general history courses, the remaining 18 in public history courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 700</td>
<td>Introduction to Public History (taken in the first semester of the first year)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 701</td>
<td>Internship in Public History</td>
<td>6</td>
</tr>
<tr>
<td>Thesis (to be taken by students in the thesis track; see tracks below)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 9 credits in public history that pertain to the area in which the student specializes in</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 36

1. Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

**Tracks**

Students must select from one of the following tracks:

- Museum Studies
- Archives
- Historic Preservation
- Thesis

**Museum Studies Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Public History**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 700</td>
<td>Introduction to Public History (taken in the first semester of the first year)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 701</td>
<td>Internship in Public History</td>
<td>6</td>
</tr>
<tr>
<td>Thesis (to be taken by students in the thesis track; see tracks below)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 36

1. Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

**Archives Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Public History**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 700</td>
<td>Introduction to Public History (taken in the first semester of the first year)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 701</td>
<td>Internship in Public History</td>
<td>6</td>
</tr>
<tr>
<td>Thesis (to be taken by students in the thesis track; see tracks below)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 9 credits in public history that pertain to the area in which the student specializes in</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 36

1. Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

**Historic Preservation Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.
Select 3 credits in electives 3

Public History
HIST 700 Introduction to Public History (taken in the first semester of the first year) 3

Select one of the following: 6
HIST 701 Internship in Public History

Thesis (to be taken by students in the thesis track; see tracks below)

Specialization
Select three of the following: 9
ARTHIST 459 American Architecture
ARCH 551 American Vernacular Architecture
ARCH 560 Introduction to Historic Preservation
ARCH 760 History of Building Technology

Total Credits 36

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Multi-Disciplinary Historical Preservation Option
Within the historic preservation track, students may elect to complete a multi-disciplinary historical preservation option. For this option, the minimum degree requirement is 48 graduate credits, 24 of which must be in history courses, with the remaining 24 selected from historic preservation courses in Art History and Architecture.

Interdisciplinary Recommendations
The following are recommended interdisciplinary courses (others may be chosen with the approval of the Public History coordinators):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 363</td>
<td>Modern Sculpture: 1880-1945</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 458</td>
<td>A Comparative History of Architecture and Urbanism:</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 901</td>
<td>Problems in Art History:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 630</td>
<td>Seminar in Literature and the Other Arts:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 741</td>
<td>Approaches to the Modern II</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 885</td>
<td>Seminar in Critical Theory</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 815</td>
<td>Media and Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 655</td>
<td>Information and Records Management:</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 927</td>
<td>Seminar in Sociology of Contemporary Institutions:</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 928</td>
<td>Seminar in Social Organization:</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Within the first semester after completing 9 credits (including two of the following courses: HIST 700, HIST 715, a colloquium, and/or a seminar), public history students who choose to write a thesis are subject to an academic review. The review is a one- to two-hour meeting involving the student, the student’s major professor, and two other members of the History Graduate Faculty who will serve as secondary readers of the student’s thesis. With the assistance of his or her major professor, the student must prepare a thesis prospectus in advance of the review. The review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the thesis prospectus.

Additional Requirements
General History Option A: Thesis Option
Thesis
The student must write an acceptable thesis.
programs in History and other related humanities and social science fields. A student's career choices after college is often guided by how they applied their coursework to real world applications during college. Internships, part-time jobs, and volunteer experiences will help a student network during college and shape their career choices after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

At UWM, undergraduates can work on research projects such as the Encyclopedia of Milwaukee. The opportunity to participate in research as an undergraduate is a distinct advantage for UWM students. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

History is also available at UWM as an online minor - all of the classes for the minor can be competed online if desired, or students can mix-and-match assorted online and traditional-format classes.

Requirements
History minors are required to take a minimum of 18 credits of coursework distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select at least 3 credits in European history</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 3 credits in U.S. history</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 3 credits in non-Western or global history</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 9 credits in courses numbered 300 or above taken in residence at UWM</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits 18

History minors must maintain a 2.0 GPA in all history courses attempted at UWM and a 2.0 GPA in all history credits attempted at all institutions attended, collectively. No more than 3 of the 18 credits applied to the minor may be earned in independent study courses (HIST 199 or HIST 699). Note that in all courses taken in the minor on a credit/no credit basis (whether applied to the requirements of the minor or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, HIST 307 counts toward the European history requirement and toward credits 300 or above taken in residence.

Course lists delineating approved European, U.S., and non-Western or global history courses offered at UWM are below.

Cross-Listed Courses
PORTUGS 360, with the topic “History of Brazil,” may be used to fulfill requirements of the undergraduate major or minor in history. It counts as a non-Western/global history course.

Categorization of Courses by Geographic Area
The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that
some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

### European History

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilization: Ancient World to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilization: 1500 to the Present</td>
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</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204</td>
<td>The History of Medieval Europe: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 206</td>
<td>Europe and the Modern World: 1815 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 235</td>
<td>English History to 1688</td>
<td>3</td>
</tr>
<tr>
<td>HIST 236</td>
<td>Britain Since 1668: Rise and Decline of a Great Power</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>Poland and its Neighbors, 1795-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
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<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 248</td>
<td>The First World War</td>
<td>3</td>
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<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
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<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
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<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 318</td>
<td>Medieval Civilization: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 319</td>
<td>The Era of the Crusades</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>History of Medieval Warfare</td>
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<tr>
<td>HIST 329</td>
<td>The Roman Catholic Church, 1500 to the Present</td>
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<td>HIST 330</td>
<td>The Papacy in History</td>
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<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
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<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
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<tr>
<td>HIST 346</td>
<td>Poland and Its Neighbors, 1914-1945</td>
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<tr>
<td>HIST 348</td>
<td>Poland and Its Neighbors, 1945 to the Present</td>
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<tr>
<td>HIST 355</td>
<td>Modern and Contemporary France</td>
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<tr>
<td>HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
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<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td>3</td>
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<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td>3</td>
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### U.S. History

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<tbody>
<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
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<tr>
<td>HIST 375</td>
<td>Contemporary European History, 1945 to the Present</td>
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<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
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<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 215</td>
<td>History of Capitalism</td>
<td>3</td>
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<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States</td>
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<tr>
<td>HIST 243</td>
<td>History of Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
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<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
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<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
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<tr>
<td>HIST 268</td>
<td>History of the American West</td>
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<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
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<tr>
<td>HIST 270</td>
<td>Topics in American History:</td>
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<tr>
<td>HIST 271</td>
<td>The 1960s in the United States: A Cultural History</td>
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<tr>
<td>HIST 404</td>
<td>Topics in American History:</td>
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<tr>
<td>HIST 405</td>
<td>The Age of the American Revolution, 1750-1789</td>
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<tr>
<td>HIST 409</td>
<td>Causes of the Civil War, 1828-1861</td>
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<tr>
<td>HIST 410</td>
<td>Civil War and Reconstruction: The United States, 1861-1877</td>
<td>3</td>
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<tr>
<td>HIST 418</td>
<td>America in Prosperity, Depression and War, 1921-1945</td>
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<tr>
<td>HIST 419</td>
<td>America Since 1945</td>
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<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
<td>3</td>
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<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
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<tr>
<td>HIST 435</td>
<td>Ethnic America: To 1880</td>
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<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
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<td>HIST 440</td>
<td>History of the American Working Classes</td>
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<tr>
<td>HIST 442</td>
<td>Beer and Brewing in America</td>
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<tr>
<td>HIST 445</td>
<td>African Americans from Slavery to Freedom</td>
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<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
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<tr>
<td>HIST 448</td>
<td>Baseball in American History</td>
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<tr>
<td>HIST 449</td>
<td>Popular Culture in America, 1800 to the Present</td>
<td>3</td>
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<tr>
<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
<td>3</td>
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<tr>
<td>HIST 451</td>
<td>History of Wisconsin</td>
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</tr>
<tr>
<td>HIST 452</td>
<td>History of Religion in American Life to 1870</td>
<td>3</td>
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<tr>
<td>HIST 453</td>
<td>History of Religion in American Life Since 1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 460</td>
<td>The History of Poverty in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td>3</td>
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</table>
HIST 468  The American Feminist Movement  3
HIST 473  History of Wisconsin Indians  3
HIST 474  Topics in North American Indian History.  3
HIST 475  American Indian History, Law, and Government  3
HIST 597  Fields and Methods in Public History  3

Non-Western or Global History

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<thead>
<tr>
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<tr>
<td>HIST 131</td>
<td>World History to 1500</td>
<td>3</td>
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<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
<td>3</td>
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<tr>
<td>HIST 141</td>
<td>Global History of the Family, Gender, and Sexuality</td>
<td>3</td>
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<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
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<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 180</td>
<td>Latin American Society and Culture</td>
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</tr>
<tr>
<td>HIST 210</td>
<td>The Twentieth Century: A Global History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 274</td>
<td>Ancient Egyptian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
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<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
<tr>
<td>HIST 284</td>
<td>Buddhism Across Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 290</td>
<td>Topics in Global History:</td>
<td>3</td>
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<tr>
<td>HIST 295</td>
<td>Historical Encounters:</td>
<td>3</td>
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<tr>
<td>HIST 372</td>
<td>Topics in Global History:</td>
<td>3</td>
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<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td>3</td>
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<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
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<tr>
<td>HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
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<tr>
<td>HIST 380</td>
<td>Buddhism: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880</td>
<td>3</td>
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<tr>
<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
<td>3</td>
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<tr>
<td>HIST 392</td>
<td>The History of Southern Africa</td>
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<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
<td>3</td>
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<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td>3</td>
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<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
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<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History</td>
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<td>HIST 401</td>
<td>Topics in Middle Eastern History:</td>
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<tr>
<td>HIST 402</td>
<td>Topics in Asian History:</td>
<td>3</td>
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<tr>
<td>HIST 596</td>
<td>Maps as Historical Sources</td>
<td>3</td>
</tr>
<tr>
<td>HIST 396</td>
<td>Decolonization, Revolution, and Independence in African History</td>
<td>3</td>
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</tbody>
</table>

The geographic area of concentration in sections of Hist 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor’s approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course’s focus includes the study of African, Asian, Middle Eastern, or Latin American history.

No Geographic Area

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HIST 289</td>
<td>Internship in History, Lower Division</td>
<td>1-6</td>
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<tr>
<td>HIST 293</td>
<td>Seminar on Historical Method: Theory and Approach</td>
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<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 489</td>
<td>Internship in History, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact the Department directly, history@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/history/undergraduate/history-minor/

History, PhD

The Department of History offers MA and PhD programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government. The Department offers a wide array of geographically, chronologically and thematically defined courses.
At the master's level, the Department offers four options:

1. A general degree in History;
2. A specialization in Public History for those interested in areas such as museum work, archival administration and historic preservation;
3. A coordinated Master of Arts/Master of Library and Information Science degree program;
4. A specialization in Urban Historical Studies for students who intend to pursue a PhD in Urban Studies or in Urban History.

At the doctoral level, the Department offers the PhD in History.

The Department also participates in the interdisciplinary master's and doctoral programs in Urban Studies. For more information, see Urban Studies (p. 1189).

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

To be considered for admission, an applicant must meet Graduate School admission requirements plus these departmental requirements:

1. A master's degree in history or a related field
2. Three letters of recommendation from persons familiar with the applicant's intellectual achievement and potential.
3. A sample of the applicant's written work that demonstrates his or her ability to conduct historical research and/or the ability to analyze the work of others critically.

Please visit the History department's website for information on the History Department Application (http://www4.uwm.edu/letsci/history/graduate/gradapply.cfm).

**Credits and Courses**

To earn the Ph.D., a student must have accumulated at least 54 graduate credits, at least 30 of them taken at the post-master's level. (Precise numbers of credits and actual course requirements while in Ph.D. status will be determined after a review of the applicant's previous coursework.)

Doctoral students may not accumulate more than 6 credits in U/G courses, nor more than 6 credits in independent study without the approval of the Director of Graduate Studies. Of the 54 credits, at least 9 must be in fields other than history. No more than 18 credits in courses outside of History may be counted toward the doctoral degree.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
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<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
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Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History (if not taken above)</td>
<td></td>
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</table>

At the doctoral level, the Department offers the PhD in History.

**Electives**

Select 12 credits of electives (may include additional dissertation credits)

| Total Credits | 21 |

**Advising**

The Director of Graduate Studies provides initial advising for the student in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor.

Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor helps the student to define a dissertation topic and assists the student in choosing appropriate courses and in selecting members of the student’s Preliminary Examination and Doctoral Committees. The Major Professor normally chairs the student’s Preliminary Examination and Doctoral Committees.

**Foreign Language or Data Analysis Proficiency**

Students must demonstrate proficiency in one or more relevant foreign languages by passing a written examination in the translation of source materials or historical analysis. If a student’s Major Professor considers proficiency in more than one language necessary to the student’s specific plan of study, exams in more than one language may be required.

With the approval of the Major Professor, a student may substitute proficiency in another skill relevant to historical study; in these cases, proficiency will be demonstrated through relevant coursework.

**Minor**

Students are not required to elect a minor field, but they may wish to supplement their chosen specialty in this way. Depending on the particular course array, students may need to take more than 54 credits to complete both the major and minor requirements. Those who wish to take a minor have three options:

**Option A: Minor In One Field**

Working with a minor professor, students take 8-12 credits in a single department, leading to a minor examination.

**Option B: Interdisciplinary Minor**

Students take 8-12 credits in two or more departments, selected for their relevance to the student's area of specialty. The minor will be defined in consultation with the student's Major Professor and the Director of Graduate Studies.

**Option C: Minor in Public History**

This 21-credit minor is appropriate for students planning a career in archives, museums, historic preservation, or other related specialties. It is not available to students who already have a specialization or degree in public history at the master’s level. Students in this minor are required to take 12 credits as follows:

<table>
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<tr>
<th>Code</th>
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<tr>
<td>HIST 713</td>
<td>Historical Research Methods (if not taken above)</td>
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<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
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<tr>
<td>HIST 716</td>
<td>Professional and Pedagogical Issues in History</td>
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<tr>
<td>HIST 717</td>
<td>History and the New Media</td>
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<tr>
<td>HIST 990</td>
<td>Dissertation Research (minimum 6 credits)</td>
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Code | Title | Credits
---|---|---
**Required**
HIST 700 | Introduction to Public History 1 | 3
HIST 701 | Internship in Public History | 6
HIST 715 | Research Methods in Local History | 3
**Electives**
Select 9 credits (see below) | | 9
Total Credits | | 21

1 Students must take HIST 700 in the first semester of their first year.

**Electives**
The remaining 9 credits in public history must be selected from courses that pertain to the area of public history in which the student wishes to specialize.

For students interested in careers as archivists, electives should be selected from the following courses:

<table>
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<tr>
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<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
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<tr>
<td>INFOST 850</td>
<td>Seminar in Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 753</td>
<td>Preserving Information Media</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td>3</td>
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<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
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Students interested in careers in museums are advised to take at least three of the following courses:

<table>
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<tbody>
<tr>
<td>ANTHRO 720</td>
<td>History and Theory of Museums</td>
<td>2</td>
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<tr>
<td>ANTHRO 721</td>
<td>Administration and Organization of Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 722</td>
<td>Visitor Experience Design in Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 723</td>
<td>Museum Collections Management and Curation</td>
<td>3</td>
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</table>

Students interested in careers in historic preservation are advised to take at least three of the following:

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ARCH 560</td>
<td>Introduction to Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 760</td>
<td>History of Building Technology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory.</td>
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</tr>
</tbody>
</table>

**Additional Requirements**

**Doctoral Preliminary Examination**
The doctoral preliminary examination includes written and oral components designed to demonstrate the breadth of a student’s knowledge and the ability to conduct advanced historical research. It must be taken within five years of enrollment in the Ph.D. program.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The Director of Graduate Studies provides specific guidelines for selecting the Doctoral Preliminary Examination Committee and preparing the doctoral preliminary examination proposal.

**Dissertation**
The dissertation is a major piece of original research representing a substantial contribution to historical scholarship. In consultation with the Major Professor, the student chooses a dissertation committee, which must approve the prospectus. The student’s Major Professor provides guidance in preparing the prospectus and in developing and writing the dissertation.

**Dissertation Defense**
The candidate must pass an oral examination in defense of the dissertation.

**Time Limit and Residence**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. To meet the continuous-year portion of the residence credit requirement, students must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. In exceptional cases, modifications of the residence requirement may be requested, subject to the approval of the History Department and the Graduate School.

**Human Resources and Labor Relations**
The Lubars School of Business and the College of Letters and Science offer and present jointly the Master of Human Resources and Labor Relations (MHRLR).

The MHRLR is an innovative master’s program offering students an interdisciplinary blend of courses and faculty in the areas of human resources and labor relations. The MHRLR program prepares students for careers as practitioners, and emphasizes a firm educational grounding in both the liberal arts and business administration. This grounding includes knowledge of human resources, staffing, labor relations, the legal system, and statistics.

Elective courses and options within the core requirements allow students to gain the specialized knowledge needed to work in the human resource management and labor relations areas of: compensation and benefits, collective bargaining, alternative dispute resolution, recruitment and selection, training and development, occupational health and safety, equal employment opportunity, strategic human resource management, and international human resource management.

The program is designed for full-time and part-time students who seek careers in the private or public sectors, and with unions or management.

**Programs**

- Human Resources and Labor Relations, MHRLR (College of Letters and Science) (p. 998)
- International Human Resources and Labor Relations, Graduate Certificate (p. 999)
Human Resources and Labor Relations, MHRLR (College of Letters and Science)

Related Certificates

- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate/)
- Graduate Certificate in International Human Resources and Labor Relations (http://uwm.edu/graduateschool/international-human-resources-labor-relations-certificate/)

Overview

The Master of Human Resources and Labor Relations (MHRLR) prepares leaders to be successful professionals. Whether you are currently in the field, a recent college graduate or wish to change careers, MHRLR provides the knowledge necessary to thrive. Our classes emphasize practical application of theory, laying the foundation for your future success.

Jobs in Human Resources will grow faster than average over the next decade. The MHRLR degree allows you to capitalize on that growth and advance in an increasingly complex business environment.

While the majority of our students work full-time in the profession and attend classes part-time, many others choose to attend full time to progress more quickly through the program. Our small classes provide the opportunity to network with both the faculty and fellow human resources and labor relations professionals.

The Lubar School of Business and the College of Letters and Science jointly offer the MHRLR degree.

Admission Requirements

Application Deadline

Students may begin their studies in the Fall, Spring or Summer semesters. Applications are accepted on a continuous basis. The program does not have a specific deadline to apply.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following requirements to be considered for admission to the MHRLR program:

1. Submission of two letters of recommendation to the MHRLR program.
2. Submission of GRE (http://uwm.edu/graduateschool/admission/#gre) or GMAT (http://uwm.edu/graduateschool/admission/#gmat) scores is recommended, but not required.
3. Students admitted to the program will be expected to present at least three credits of prior work in both microeconomics and introductory statistics.
4. Students who are deficient in the areas of microeconomics or statistics at the time of admission (see above), will be expected to satisfy deficiency requirements within three enrolled semesters. Deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted for the degree.
5. Applicants are reviewed by the MHRLR admissions committee to assess academic achievements and the ability to do intensive graduate-level work.

Credits and Courses

The Master of Human Resources and Labor Relations degree will be awarded upon completion of 36 credits of prescribed graduate study and appropriate prerequisite coursework. The program offers a balance between liberal arts and business-based education, requiring that at least 15 credits be taken within the College of Letters and Science and at least 15 credits be taken within the Lubar School of Business. The MHRLR Program believes in a common body of knowledge and skills necessary to be an effective Human Resource or Labor Relations professional.

The program has a required core of seven courses totaling 21 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND REL 701</td>
<td>Industrial and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 735</td>
<td>Staffing Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Adams</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layth Alwan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Margo Anderson</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Drewianka</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarah Freeman</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeanne Hewitt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois-Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Heywood</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mark Mone</td>
<td>Professor</td>
<td>PhD</td>
<td>Washington State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belle Rose Ragins</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Tennessee-Knoxville</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hong Ren</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Pennsylvania State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Romila Singh</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Drexel University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The assistant director of the MHRLR Program advises and supervises newly admitted students. The assistant director, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements.

### Additional Requirements

**Major Professor as Advisor**

The assistant director of the MHRLR Program advises and supervises newly admitted students. The assistant director, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements.

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### International Human Resources and Labor Relations, Graduate Certificate

The Graduate Certificate in International Human Resources and Labor Relations responds to the increasing influence of globalization on the practice of Human Resource Management and the conduct of Labor Relations. Firms and unions are increasingly part of a complex web of international economic relationships. Many of the workplace innovations now taken for granted began overseas: quality circles, work groups and flatter hierarchies. Many firms operate overseas under very different labor market institutions and human resource expectations.

This program of study provides practical and theoretical knowledge designed to help students function as professionals in the increasing broad international context of human resource management and labor relations.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Eligibility and Admission**

Students applying for the Certificate Program in International Human Resources and Labor Relations must hold a bachelor's degree and must have earned a 2.75 GPA overall or must furnish substantial evidence of ability to succeed in graduate-level work. Students admitted to the Certificate will be expected to present at least three credits of prior work in microeconomics and three credits in statistics.

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.

- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-application.uwm.edu/).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

### Credits and Courses

- **Required**
  - IND REL 701 Industrial and Labor Relations 3 Credits
  - ECON 755 Comparative Labor Markets and Employment Relations 3 Credits
  - BUSMGMT 723 Managing and Negotiating Across Cultures 3 Credits
  - BUS ADM 738 Human Resource Management 3 Credits
  - or BUS ADM 795 Seminar-in-Management:

- **Recommended**

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1. If IND REL 720 and ECON 753 are both taken, one of these may be used to help fulfill elective requirements.

2. If IND REL 711 and IND REL 712 are both taken, one of these may be used to help fulfill elective requirements.

3. The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both).

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**Elective Courses**

The choice of electives to complete a MHRLR degree should reflect student interest. Students are not required to choose a specialization and are encouraged to select those electives that best suit their backgrounds and interests. A student may take up to 6 credits from the approved list of alternative electives in other schools such as the College of Nursing, the School of Education, and the School of Social Welfare. No student will be permitted to apply more than nine credits taken at the U/G level toward meeting MHRLR degree requirements. Please refer to the MHRLR website (http://uwm.edu/human-resources-labor-relations/graduate/requirements/elective-courses/) for a comprehensive listing of elective courses.

Students without prior experience in the field are encouraged to take advantage of the program's extensive contacts in the business and labor communities by undertaking one or more internships as either BUS ADM 899 or IND REL 921. Students may also utilize the wide range of faculty expertise available within the program for a major research paper on a human resources or labor relations topic. These papers, under the direction of a faculty advisor, are taken as either IND REL 801 or BUS ADM 899. A student may graduate with honors from the MHRLR program by maintaining a 3.5 grade-point average within the program, and by writing a 3-credit major research paper (under BUS ADM 899 or IND REL 801).

Any new course development, programmatic changes, or program name change must be approved by the appropriate curricular committees and faculty in the respective units.

The program, including admissions and course staffing, is subject to the AACSB accreditation requirements.

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The following courses are recommended but not required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND REL 999</td>
<td>Independent Study</td>
</tr>
<tr>
<td>BUS ADM 799</td>
<td>Reading and Research</td>
</tr>
<tr>
<td>IND REL 921</td>
<td>Internship in Industrial Relations</td>
</tr>
</tbody>
</table>

Total Credits 12

1 Course substitutions would be allowed with the consent of the MHRLR Director for those who had previously completed similar coursework.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
BLT, 812
Phone: (414) 229-4310
mhrlr@uwm.edu
http://uwm.edu/human-resources-labor-relations/graduate/certificates/

International Studies

The International Studies (IS) Program is interdisciplinary and administered by faculty members in the College of Letters and Science. Our IS programs offer students an excellent opportunity to improve their understanding of the diverse cultures of the world and to begin developing the skills they need for careers that have an international dimension. Our IS programs have grown steadily over the past 50 years to meet the needs for a more globalized education.

All interested students should consult the International Studies advisor at the earliest opportunity.

Programs
• International Studies, BA (p. 1000)
• International Studies, Minor (p. 1008)

International Studies, BA

Students in UWM’s international studies program take courses in history, political science, economics, anthropology, comparative literature, and foreign languages to build a program around their own specialized interests in international relations, politics, economics, development, or culture and language. The International Studies (IS) major offers a number of special options designed to help students deepen their knowledge of international affairs.

Understanding the nuances of globalization in our personal and professional lives, speaking the languages of others, and appreciating cultural diversity are essential skills for living and working in the world today. UWM’s International Studies program is based on the principles of the liberal arts with an emphasis in broad knowledge of people, places, and institutions, coupled with the skills to be an adaptable professional in a global marketplace. International studies majors have the ability to interact across cultures, converse in more than one language, analyze problems across cultural or national boundaries, adapt to new situations, appreciate differences in people and processes, and problem solve across different areas and formats.

With this background, students have job opportunities in many different industries and are prepared for many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through internships, part-time jobs, and volunteer experiences. Students may opt to complete an internship for credit as part of the International Studies major.

Similarly, a study abroad (http://uwm.edu/cie/study-abroad/) experience can open up new opportunities that would not have even been imagined prior to going abroad. UWM has programs at more than 70 sites around the world that vary in length from 2 to 3 weeks, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during their junior year. Studying abroad is strongly encouraged for all International Studies majors, but not required.

Students often wonder what the differences are between Global Studies and International Studies at UWM. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies. Global Studies majors also complete experiential learning credits, choosing a combination of study abroad and internship options.
Both studying abroad and internships are optional for International Studies majors. In addition, International Studies coursework is focused exclusively on courses found in the College of Letters & Science.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
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<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
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<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
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<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
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<tr>
<td></td>
<td>MATH 108 Algebric Literacy II</td>
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</tr>
<tr>
<td></td>
<td>MATH 111 or PHILOS 111 Introduction to Logic - Critical</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
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</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
</tbody>
</table>

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.
Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
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</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Title</td>
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<tr>
<td></td>
<td>Credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research
requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

International Studies Major Requirements
The major requires 4 semesters or the equivalent in one foreign language. Students must complete at least one college course to meet this requirement; high school work alone will not suffice. Students must attain a 2.0 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.0 GPA in all major credits attempted, including any transfer work.

Students may receive credit toward the International Studies (IS) major for participation in study abroad programs or the United Nations Summer Seminar. Credit towards the major also may be obtained through a semester-long internship in an international business, a government office, or a private organization with an international focus, either in Milwaukee or abroad.

Students may declare the International Studies (IS) major once they have reached 15 credits. The advisor will assist each student in preparing a logical sequence of studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ANTHRO 102  Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ANTHRO 104  Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 176    East Asian Civilization Since 1600</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 180    Latin American Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 242    Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
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<tr>
<td></td>
<td>HIST 282    The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 106 Politics of the World’s Nations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or POL SCI 175 Introduction to International Relations</td>
<td>3</td>
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</table>

Requirements for the Major

General

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (subtitle) (satisfies L&amp;S research requirement)</td>
<td>3</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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</tr>
<tr>
<td></td>
<td>ANTHRO 560  Introduction to Research Methods in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ANTHRO 561  Techniques and Problems in Ethnography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 210   Economic Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 203</td>
<td>Introduction to Political Science Research</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>WGS 411</td>
<td>Women’s and Gender Studies Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Options

Select one of the following: 18

Option A: International Politics and World Affairs
Option B: International Economics and Development
Option C: World Languages and Culture

Electives

Select 11-12 credits from the list of electives for a total of 36 credits

Total Credits 50-52

1 The introductory courses are required and should be taken during the first two years. Credits earned in the introductory courses do not count toward the 36 credits required for the major. They cannot be taken on a credit/no credit basis.

Option A: International Politics and World Affairs
This option emphasizes political aspects of international studies. 18 credits are required as outlined below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select a minimum of three of the following:</td>
<td>9</td>
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<tr>
<td></td>
<td>ECON 353   Economic Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 316 International Law</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 337 International Organization and the United Nations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 338 Seminar in International Relations: (part of UN Summer Seminar)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 340 Politics of Nuclear Weapons</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 365 Theories and Methods in International Politics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 370 International Conflict</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POL SCI 371 Nationalism and Ethnic Conflict</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18
### Option B: International Economics and Development

This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies. 18 credits are required as outlined below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of two of the following: 6 credits

- BUS ADM 465 International Marketing
- BUS ADM 496 International Business
- ECON 351 Introduction to International Economic Relations
- ECON 454 International Trade
- ECON 455 International Finance
- POL SCI 316 International Law
- POL SCI 370 International Conflict
- URBPLAN 315 Great Cities of the World: Their Growth and Guided Urbanization
- URBPLAN 684 Planning Local Economic Development

**Total Credits**: 18

### Option C: World Languages and Culture

This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives. 18 credits are required as outlined below:

Select four from the following list, selecting from four different disciplinary areas: 12 credits

- **Anthropology**:
  - ANTHRO 355 Globalization, Culture, and Environment
  - ANTHRO 431 Cities and Culture
  - ANTHRO/GLOBAL 442 Humanitarianism in Global Perspective
  - ANTHRO/GLOBAL 447 The Global Politics of Human Rights
  - ANTHRO 449 The Human Economy
  - ANTHRO 450 Political Anthropology
  - ANTHRO 543 Cross-Cultural Study of Religion

- **Comparative Literature**:
  - COMPLIT 231 Literature and Religion:
  - COMPLIT 232 Literature and Politics:

- **English**:
  - ENGLISH 278 Introduction to World Literatures Written in English:
  - ENGLISH 316 World Cinema:
  - ENGLISH 522 Studies in World Literature Written in English:

- **Global Studies**:
  - GLOBAL 321 The Global City in History
  - GLOBAL 351 Language, Media, and Social Practice in Global Communications
  - GLOBAL/ANTHRO 442 Humanitarianism in Global Perspective

**Total Credits**: 18

### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 325</td>
<td>Africa/China Relations</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 352</td>
<td>Extended Families in Black Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 362</td>
<td>Philosophy and Thought in Africa and the Diaspora II</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 420</td>
<td>The Political Economy of Slavery</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 565</td>
<td>Selected Texts/Topics in African &amp; African Diaspora Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 156</td>
<td>Food and Culture</td>
<td>3</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>ANTHRO 250</td>
<td>Women's Roles in Cross-Cultural Perspective</td>
<td>3</td>
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<tr>
<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 381</td>
<td>Honors Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
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<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
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<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 442</td>
<td>Humanitarianism in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 445</td>
<td>Psychological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 446</td>
<td>The Child in Different Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 449</td>
<td>The Human Economy</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 450</td>
<td>Political Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 540</td>
<td>Applications of Anthropology</td>
<td>3</td>
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<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
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<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
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<td>ANTHRO 641</td>
<td>Seminar in Anthropology</td>
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<tr>
<td>ARABIC 111</td>
<td>Cultures and Civilizations of the Muslim Middle East</td>
<td>3</td>
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<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
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<tr>
<td>ARTHIST 205</td>
<td>History of Film I: Development of an Art</td>
<td>3</td>
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<tr>
<td>ARTHIST 206</td>
<td>History of Film II: Development of an Art</td>
<td>3</td>
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<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
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<tr>
<td>ARTHIST 481</td>
<td>Topics in Chinese Art</td>
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<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
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<td>BUS ADM 456</td>
<td>International Financial Management</td>
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<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>3</td>
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<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 150</td>
<td>Contemporary Chinese Society and Culture</td>
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</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
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<tr>
<td>COMMUN 310</td>
<td>Communication in Organizations</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<tr>
<td>COMMUN 363</td>
<td>Communication in Human Conflict</td>
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<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
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<td>COMMUN 550</td>
<td>International and Global Communication</td>
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</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
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<td>COMMUN 681</td>
<td>Seminar in Communication in a World of AIDS</td>
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<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century</td>
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<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s</td>
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<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present</td>
<td>3</td>
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<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion: (Nazis and Anti-Semitic Propaganda)</td>
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</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film: (subtitle)</td>
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</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society</td>
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</tr>
<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature</td>
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<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience</td>
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<tr>
<td>COMPLIT 362</td>
<td>Transnational Asian Cinemas</td>
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<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context</td>
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<tr>
<td>COMPLIT 461</td>
<td>Film-Fiction Interaction</td>
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<tr>
<td>COMPLIT 463</td>
<td>Literary Criticism: Major Authors</td>
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<tr>
<td>COMPLIT 464</td>
<td>Seminar in Comparative Literary Criticism: (subtitle)</td>
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<td>ECON 248</td>
<td>Economics of Discrimination</td>
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<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
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<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
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<td>ECON 328</td>
<td>Environmental Economics</td>
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</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
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<td>ECON 413</td>
<td>Statistics for Economists</td>
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<td>ECON 447</td>
<td>Labor Economics</td>
<td>3</td>
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<tr>
<td>ECON 454</td>
<td>International Trade</td>
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<tr>
<td>ECON 455</td>
<td>International Finance</td>
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<td>ED POL 698</td>
<td>Fieldwork in International Education</td>
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<tr>
<td>ENGLISH 210</td>
<td>Global English</td>
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<td>Writing in the Professions: (International Business Writing)</td>
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<td>ENGLISH 306</td>
<td>Survey of Irish Literature</td>
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<td>ENGLISH 312</td>
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<td>World Cinema</td>
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<td>Language, Power, and Identity</td>
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FLL 216  Survey of Civilization:  3
FRENCH 311  French for International Business/Professional Communication: Oral Emphasis  3
FRENCH 324  Contemporary French Language and Culture  3
FRENCH 357  Literature of the French-Speaking World in Translation:  3
FRENCH 361  French for International Business/Professional Communication: Writing Focus  3
FRENCH 426  Growing Up French  3
FRENCH 430  Reaction and Innovation: French Culture of the 19th and 20th Centuries  3
FRENCH 431  Seminar in Literature of the Francophone World:  3
FRENCH 432  Seminar in French and Francophone Cultures:  3
FRENCH 450  Institutions and Culture of Contemporary France  3
FRENCH 451  Cinema of the French-Speaking World:  (subtitle)  3
FRENCH 510  Seminar on Masterpieces of Literature Written in French: (subtitle)  3
GEOG 115  Globalization and Economic Development  3
GEOG 125  Introduction to Environmental Geography  3
GEOG 213  Geography of Asia  3
GEOG 231  Muslim Geographies: Identities and Politics  3
GEOG 261  Africa: Topical Analysis  3
GEOG 309  Nationalities and Nations of the World  3
GEOG 330  Europe: East and West  3
GEOG 400  Population, Environment, Development  3
GEOG 421  Geography of Latin America  3
GEOG 443  Cities of the World: Comparative Urban Geography  3
GEOG 470  Geography of South Asia  3
GERMAN 333  Texts and Contexts  3
GERMAN 334  Introduction to German Studies  3
GERMAN 360  German for the Global World  3
GERMAN 410  German Cultural History  3
GERMAN 415  Topics in German Studies:  3
GERMAN 460  German Literature from 1945 to the Present  3
GLOBAL 101  Introduction to Global Studies I: People and Politics  3
GLOBAL 201  Introduction to Global Studies II: Economics and the Environment  3
GLOBAL 202  Introduction to Global Studies III: Globalization and Technology  3
GLOBAL 297  Study Abroad: (subtitle)  1-12
GLOBAL 311  Contexts for Global Management  3
GLOBAL 321  The Global City in History  3
GLOBAL 351  Language, Media, and Social Practice in Global Communications  3
GLOBAL 362  System Failure: Globalization and Language Extinction  3
GLOBAL 371  Rethinking Global Security  3
GLOBAL 442  Humanitarianism in Global Perspective  3
GLOBAL 443  Medicine and Pharmaceuticals in the Global Age  3
GLOBAL 447  The Global Politics of Human Rights  3
GLOBAL 448  Intellectual Property in the Global Information Economy  3
GLOBAL 451  Access, Security, and Intercultural Contexts in Global Communications  3
GLOBAL 471  Strategies for Realizing Security in Global Contexts  3
GLOBAL 489  International Internship in Global Studies, Upper Division  1-6
GLOBAL 497  Study Abroad: (subtitle)  1-12
GLOBAL 499  Ad Hoc: (subtitle)  1-6
GLOBAL 541  Cross-Cultural Management  3
HIST 180  Latin American Society and Culture  3
HIST 200  Historical Roots of Contemporary Issues: (Cuba Under Castro)  3
HIST 210  The Twentieth Century A Global History  3
HIST 236  Britain Since 1688: Rise and Decline of a Great Power  3
HIST 242  Women and Gender in Europe: 1750 to the Present (if not selected as one of the introductory courses)  3
HIST 248  The First World War  3
HIST 249  The Second World War in Europe  3
HIST 282  The Modern Middle East in the Nineteenth and Twentieth Centuries (if not selected as one of the introductory courses)  3
HIST 286  The Korean War  3
HIST 287  The Vietnam War  3
HIST 290  Topics in Global History:  3
HIST 341  Imperial Russia  3
HIST 343  Russia Since 1917  3
HIST 348  Poland and Its Neighbors, 1945 to the Present  3
HIST 363  Germany: Hitler and the Nazi Dictatorship  3
HIST 364  The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45  3
HIST 372  Topics in Global History:  3
HIST 377  Modern China  3
HIST 378  Revolution in China  3
HIST 386  Africa: The Age of Empires to 1880  3
HIST 387  Africa: Imperialism and Independence Since 1880  3
HIST 392  The History of Southern Africa  3
HIST 393  History of Mexico  3
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<td>Politics of Nuclear Weapons</td>
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<td>POL SCI 343</td>
<td>Asian International Relations</td>
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<td>Problems of American Foreign Policy</td>
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<td>Theories and Methods in International Politics</td>
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<td>Nationalism and Ethnic Conflict</td>
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<td>Russian Life and Culture</td>
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<td>Dostoyevsky and Tolstoy in Translation:</td>
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<td>Race and Ethnicity in Global Contexts</td>
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<td>Topics in Latino Literature in English:</td>
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<td>Survey of Spanish-American Literature and Civilization</td>
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<td>Survey of Spanish Literature and Civilization</td>
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Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Honors and high honors in the major are awarded at graduation to students who achieve the following:

**Honors:** at least a 3.0 overall GPA with a 3.5 GPA on all credits attempted in the major and a 3.50 GPA on all advanced credits attempted in the major;

**High Honors:** at least a 3.0 overall GPA with a 3.75 GPA on all credits attempted in the major and a 3.75 GPA on all advanced credits attempted in the major.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Letters & Science Advising at (414) 229-4654
Prospective Students contact a Letters & Science Admissions Counselor or Christine Wolf

Phone: (414) 229-7711 or let-sci@uwm.edu
cawolf@uwm.edu

International Studies, Minor

Students in UWM’s International Studies minor take courses in history, political science, economics, anthropology, comparative literature, and foreign languages to build a program around their own specialized interests in international relations, politics, economics, or development.

Understanding the nuances of globalization in our personal and professional lives, speaking the languages of others, and appreciating cultural diversity are essential skills for living and working in the world today. The International Studies minor is based on the principles of the liberal arts with an emphasis on broad knowledge of people, places, and institutions, making for more adaptable and marketable young professionals in a fast-moving global economy. International studies minors learn to interact across cultures, study languages, analyze problems across cultural or national boundaries, adapt to new situations, appreciate differences in people and processes, and problem solve across different areas and formats.

With this background, students enhance their skill set preparing them for today’s job opportunities in many different industries and for many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through internships, which may be completed for credit as part of the program.
Similarly, while not required for the minor, a study abroad (http://uw.edu/cie/study-abroad/) experience can open up new opportunities that would not have even been imagined prior to going abroad. UWM has programs at more than 70 sites around the world that vary in length from a few weeks of immersion, to semester-long, to even full year programs.

Students often wonder what the differences are between Global Studies and International Studies. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies. In addition, International Studies coursework is focused exclusively on courses found in the College of Letters & Science. The International Studies minor consists of a total of 18 credits, in which students must attain a GPA of 2.0 in all UWM credits attempted for the minor. Students must attain a GPA of 2.0 in all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.0 GPA in all minor credits attempted, including transfer work. Students must complete in residence at UWM at least 9 credits of upper-division courses (numbered 300 and above) in the minor. Students may declare the minor after completing at least 15 credits.

### Requirements

The International Studies minor consists of a total of 18 credits, in which students must attain a GPA of 2.0 in all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.0 GPA in all minor credits attempted, including transfer work. Students must complete in residence at UWM at least 9 credits of upper-division courses (numbered 300 and above) in the minor. Students may declare the minor after completing at least 15 credits.

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<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
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<td>Economic Statistics</td>
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<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
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<td>Seminar on Historical Method: Research Techniques</td>
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<td>Introduction to Political Science Research</td>
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<td>POL SCI 390</td>
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<td>Introduction to Statistical Thinking in Sociology</td>
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<td>WGS 411</td>
<td>Women's and Gender Studies Research Methods:</td>
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### Options

Option A: International Politics and World Affairs

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<td>ANTHRO 431</td>
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<td>ANTHRO/GLOBAL 442</td>
<td>Humanitarianism in Global Perspective</td>
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<td>ANTHRO/GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
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<td>ANTHRO 449</td>
<td>The Human Economy</td>
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<td>ANTHRO 450</td>
<td>Political Anthropology</td>
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<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
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<td>COMPLIT 232</td>
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Option B: International Economics and Development

This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.

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<td>BUS ADM 496</td>
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<td>POL SCI 316</td>
<td>The Politics of International Economic Relations</td>
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<td>POL SCI 330</td>
<td>International Conflict</td>
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<td>URBPLAN 315</td>
<td>Great Cities of the World: Their Growth and Guided Urbanization</td>
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<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
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Option C: World Languages and Culture

This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 225</td>
<td>Understanding the Hispanic World:</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 342</td>
<td>Business and Legal Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 350</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 371</td>
<td>Introduction to Latino Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 373</td>
<td>Topics in Latino Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 380</td>
<td>Hispanic Literature in Translation:</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 391</td>
<td>Social and Historical Issues in the Hispanic World:</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 474</td>
<td>Survey of Spanish Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 491</td>
<td>Topics in Hispanic Culture: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 506</td>
<td>Seminar in Spanish Literature: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 507</td>
<td>Seminar in Spanish-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 570</td>
<td>Seminar in Spanish Golden Age Literature:</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 315</td>
<td>Great Cities of the World: Their Growth and Guided Urbanization</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>WGS 500</td>
<td>Advanced Social Science Seminar in Women's and Gender Studies: (Gender in Asia)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Contact Information**

Current Students contact L&S Advising, let-sci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor (414) 229-7711 or let-sci@uwm.edu or Christine Wolf cawolf@uwm.edu

**Jewish Studies**

The Jewish Studies program at UWM offers a major and minor in Jewish Studies as well as a certificate in Holocaust, Genocide, and Human Rights Studies. All can be completed fully online, and offer students a rich engagement with the culture and religion of the Jewish people through language, history, arts, media, politics, and literature.

**Programs**

- Holocaust, Genocide, and Human Rights Studies, Undergraduate Certificate (p. 1014)
- Jewish Studies, BA (p. 1014)
- Jewish Studies, Minor (p. 1018)

**Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel N. Baum</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
</tr>
<tr>
<td>Yael Gal Ben Yitschak</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>Middlebury College</td>
</tr>
</tbody>
</table>
Holocaust, Genocide, and Human Rights Studies, Undergraduate Certificate

The Certificate in Holocaust, Genocide, and Human Rights Studies is a multidisciplinary Certificate that confronts the social forces that lead to genocide. With the Holocaust as its foundation, the Certificate encourages students to look broadly at the moral, social, and political contexts of genocide and post-genocide memory and to use their understanding of the Holocaust and genocide to create meaningful change in our world.

Eligibility

The program is open to undergraduates and to post-baccalaureate special students.

Undergraduate students concurrently completing a bachelor’s degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students receive the certificate upon completion of the required coursework.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.0, at least 18 credits (at least 6 courses) in courses approved for the certificate, of which at least 12 credits must be in Letters and Science courses, with 6 of those at the 300 level or above. At least 12 credits must be earned in residence at UWM, and at least 9 of the credits taken in residence must be at the 300 level or above. No more than 12 credits from any one department may count toward the certificate. Courses for the certificate may not be taken on a credit/no credit bases.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Courses</strong></td>
<td>9</td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td></td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td></td>
</tr>
<tr>
<td>JEWISH 247</td>
<td>Topics in Jewish Literature, Art, and Culture: (w/appropriate topic)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td></td>
</tr>
<tr>
<td>JEWISH 321</td>
<td>The Holocaust and the Politics of Memory</td>
<td></td>
</tr>
<tr>
<td>JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td>9</td>
</tr>
<tr>
<td>AFRIC 111</td>
<td>Introduction to African-American History to 1865</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 18

1 Other electives may be approved by the coordinator.

Jewish Studies, BA

Jewish Studies majors at UWM examine the culture and religion of the Jewish people through language, history, arts, media, politics, and literature.

A major in Jewish Studies prepares students for work in a multicultural world with a skill set that includes the ability to analyze texts and weigh different interpretations, present persuasive arguments in writing and speech, and appreciate different backgrounds and viewpoints. Jewish Studies alumni have found careers in social welfare, Jewish organization administration, government, business administration, journalism, the arts, education, and other fields. Further graduate study has led others to careers in religious leadership, medicine, and the law.
UWM students can choose a Hebrew track within the major which has a focus on the foundations of Judaism, including extensive study of the Hebrew language. Or, students can opt for the Jewish Studies track with an emphasis on modern Jewish history, literature, film and politics.

Jewish Studies majors and minors can further their education by participating in UWM’s Study Abroad opportunities in Israel. Majors and minors studying in Israel are eligible for travel awards from the Stahl Center for Jewish Studies. The Stahl Center for Jewish Studies also offers other scholarships and awards to outstanding Jewish Studies majors and minors, including a scholarship for majors that helps students in their final semesters, so they can progress to graduation more easily.

A major in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures and Communities, and/or Comparative Ethnic Studies, or as a second major with History or Religious Studies.

The major can be completed fully online for students who need coursework that fits their schedules.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
<th>Achieve a grade of C or better in one of the following:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning ¹</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

<table>
<thead>
<tr>
<th>Select 3 credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

| Two years (high school) of a single foreign language |         |
| Two semesters (college) of a single foreign language |         |

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

¹ Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>(not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.
Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements
All majors in Jewish Studies are required to register with the program at the beginning of their candidacy and are encouraged to speak to the program coordinator as early as possible to plan a course of study.

Jewish Studies majors in both tracks must complete a minimum of 15 advanced-level (numbered 300 and above) credits in L&S courses taken in residence at UWM. A GPA of 2.0 is required in courses taken for the major at UWM and in all courses that count for the major, including transfer work. All majors in Jewish Studies must complete a minimum of 30 credits in the major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JEWISH 100</td>
<td>Introduction to Judaism</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td></td>
</tr>
<tr>
<td>Research Requirement (All research courses and projects must be approved by the coordinator)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- JEWISH 699 Advanced Independent Study
- One of the 300 level or above courses listed below

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Tracks</td>
<td></td>
<td>24-26</td>
</tr>
<tr>
<td>Hebrew Studies Track</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jewish Cultural Studies Track</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30-32

Hebrew Studies Track
Hebrew language courses: Students are required to complete HEBREW 201 and HEBREW 202 in order to graduate in this track. HEBREW 101 and HEBREW 102 count toward the 100-200 level course requirement below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBREW 201</td>
<td>Third-Semester Hebrew</td>
<td>8</td>
</tr>
<tr>
<td>&amp; HEBREW 202</td>
<td>and Fourth-Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of 100 or 200 level courses from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HEBREW 101</td>
<td>First Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBREW 102</td>
<td>Second Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>JEWISH 100</td>
<td>Introduction to Judaism (recommended)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film</td>
<td></td>
</tr>
<tr>
<td>JEWISH 230</td>
<td>Bible Stories</td>
<td></td>
</tr>
<tr>
<td>JEWISH 231</td>
<td>Introduction to the Old Testament/ Hebrew Bible</td>
<td></td>
</tr>
<tr>
<td>JEWISH 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td></td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td></td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits of 300 level or above courses from the following:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>JEWISH 331</td>
<td>Topics in Biblical Literature:</td>
<td></td>
</tr>
<tr>
<td>JEWISH 332</td>
<td>Women in the Bible</td>
<td></td>
</tr>
<tr>
<td>JEWISH/POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
<td></td>
</tr>
<tr>
<td>JEWISH/FILMSTD 350</td>
<td>Global Jewish Film and Television:</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td></td>
</tr>
<tr>
<td>JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td></td>
</tr>
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<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
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</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td></td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td></td>
</tr>
<tr>
<td>JEWISH 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 26

Jewish Cultural Studies Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits of 100 or 200 level courses from the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>HEBREW 101</td>
<td>First Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBREW 102</td>
<td>Second Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBREW 201</td>
<td>Third-Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBREW 202</td>
<td>Fourth-Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film</td>
<td></td>
</tr>
<tr>
<td>JEWISH 230</td>
<td>Bible Stories</td>
<td></td>
</tr>
<tr>
<td>JEWISH 231</td>
<td>Introduction to the Old Testament/ Hebrew Bible</td>
<td></td>
</tr>
<tr>
<td>JEWISH 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td></td>
</tr>
</tbody>
</table>
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Rachel Baum, rbaum@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

https://www4.uwm.edu/jewishstudies/major.cfm

Jewish Studies, Minor

Jewish Studies minors at UWM examine the culture and religion of the Jewish people through language, history, arts, media, politics, and literature.

The Jewish Studies program prepares students for work in a multicultural world with a skill set that includes the ability to analyze texts and weigh different interpretations, present persuasive arguments in writing and speech, and appreciate different backgrounds and viewpoints. Jewish Studies alumni have found careers in social welfare, Jewish organization administration, government, business administration, journalism, the arts, education, and other fields. Further graduate study has led others to careers in religious leadership as rabbis or cantors.

Jewish Studies minors can further their education by participating in UWM’s Study Abroad opportunities in Israel. Majors and minors studying in Israel are eligible for travel awards from the Stahl Center for Jewish Studies. The Stahl Center for Jewish Studies also offers other scholarships and awards to outstanding Jewish Studies majors and minors, including a scholarship for majors that helps students in their final semesters, so they can progress to graduation more easily.

A minor in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures...
and Communities, and/or Comparative Ethnic Studies, or a major in Religious Studies.

Both the major and minor can be completed fully online for students who need coursework that fits their schedules.

Requirements

The minor requires completion of a minimum of 18 credits, at least 9 of which must be taken at the 300 level or above in residence at UWM, in courses approved for the major (see list below). Other courses may be counted towards the minor with approval of the coordinator. The College requires that students earn a GPA of at least 2.0 on all credits for the minor attempted at UWM. In addition, students must earn a GPA of 2.0 on all minor credits attempted, including any transfer work.

Select 18 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBREW 101</td>
<td>First Semester Hebrew</td>
<td>4</td>
</tr>
<tr>
<td>HEBREW 102</td>
<td>Second Semester Hebrew</td>
<td>4</td>
</tr>
<tr>
<td>HEBREW 201</td>
<td>Third-Semester Hebrew</td>
<td>4</td>
</tr>
<tr>
<td>HEBREW 202</td>
<td>Fourth-Semester Hebrew</td>
<td>4</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 100</td>
<td>Introduction to Judaism</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 230</td>
<td>Bible Stories</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 331</td>
<td>Topics in Biblical Literature:</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 332</td>
<td>Women in the Bible</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/FILMSTD 350</td>
<td>Global Jewish Film and Television:</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 699</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Dr. Rachel Baum, rbaum@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://www4.uwm.edu/jewishstudies/minor.cfm

Journalism, Advertising, and Media Studies

The Department of Journalism, Advertising, and Media Studies offers a major or minor in journalism, advertising, and media studies that emphasizes the study of the social implications and responsibilities of the mass media, an understanding of the processes of communication, and a fundamental knowledge of media communication techniques and procedures. The program provides students with a broad background in the liberal arts and sciences, which are vital aspects of contemporary life and essential to those entering careers in media communication.

Cross-listed Courses

The following courses offered by the Department of English may be used to fulfill curricular requirements of the undergraduate major or minor in journalism, advertising, and media studies:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Course

The following course offered by the Department of English may be of interest to JAMS students but may not be used to fulfill curricular requirements of the JAMS major or minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Programs

- Journalism, Advertising, and Media Studies, BA (p. 1020)
- Journalism, Advertising, and Media Studies, Minor (p. 1024)
- Media Studies, MA (p. 1024)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Allen</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jackie Bradway</td>
<td>Lecturer</td>
<td>MA</td>
<td>Webster University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xiaoxia Cao</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jane Hampden Daley</td>
<td>Senior Lecturer</td>
<td>MSJ</td>
<td>Columbia University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taisik Hwang</td>
<td>Visiting Assistant Professor</td>
<td>PhD</td>
<td>University of Georgia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rachael Jurek</td>
<td>Lecturer</td>
<td>MA</td>
<td>Marquette University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elana Levine</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Journalism, Advertising, and Media Studies, BA

The worlds of journalism, advertising, and public relations are changing at a rapid pace with the integration of social media, mobile apps, amateur photography and video, and instant feedback. UWM's Department of Journalism, Advertising, and Media Studies (JAMS) is a great place to learn about the tools used today and to obtain the skills to adapt to the channels of tomorrow.

The Department of Journalism, Advertising, and Media Studies (JAMS) teaches students about the role of media in culture and society and offers hands-on experience in journalism and advertising/public relations. The JAMS major blends liberal arts education in media studies with professional training for work in media fields.

JAMS undergraduate students choose one of three concentrations based on their interests and career aspirations: journalism, advertising/public relations, and media studies. Students have opportunities to learn from media scholars and industry professionals, and they produce media in their chosen areas of study.

Our students report news stories, run social media pages, produce short documentaries and podcasts, and research, plan, and conduct events for nonprofit organizations. JAMS students have several opportunities to learn outside the classroom through active clubs and organizations including a student chapter of the Public Relations Society of America, Ad Club, Journalism Club, The UWM Post, and the Minority Media Association. Student work is showcased on a student-powered online news site, Media Milwaukee. Many JAMS students have internships which earn major credits.

JAMS majors excel in careers in writing, reporting, editing, marketing, advertising, broadcasting, public relations, social media management, journalism, and more.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
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<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
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<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
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<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
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<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
</tbody>
</table>
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOS 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.
Concentration Requirements

JAMS 204  | News Writing and Technology | 3
JAMS 320  | Integrated Reporting   | 3
Select at least two of the following:  
JAMS 332  | Introduction to Digital Documentary | 3
JAMS 342  | Television News Reporting | 3
JAMS 500  | Advanced Integrated Reporting | 3
JAMS 502  | Specialized Reporting   | 3

Total Credits: 12

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

JAMS Major Requirements
Students must complete 18 or more credits in courses numbered 300 or above, and at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students may count a maximum of 6 credits in any combination of JAMS 399 and JAMS 600, each of which can be taken to a maximum of 6 credits. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. Students must attain a 2.0 GPA on all major credits attempted, including transfer work.

A Journalism, Advertising, and Media Studies (JAMS) major requires a minimum of 36 credits in JAMS and at least 12 credits in a single major, department, or certificate program outside of JAMS, of which, at least 6 credits must be at the 300 level or above:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 559</td>
<td>Freedom of Expression in the Digital Age</td>
<td>3</td>
</tr>
<tr>
<td>Complete 12 credits of JAMS Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select at least one JAMS 600-level course with the word &quot;Seminar&quot; in its title to meet the L&amp;S requirement for a research experience in the major</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 48

1 At least 6 credits must be at the 300 level or above.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office ([https://uwm.edu/letters-science/advising/contact-advising/](https://uwm.edu/letters-science/advising/contact-advising/)) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website ([https://uwmilwaukee.campus.eab.com/](https://uwmilwaukee.campus.eab.com/)) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Department directly, jams-email@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

[https://uwm.edu/journalism-advertising-media-studies/undergraduate/](https://uwm.edu/journalism-advertising-media-studies/undergraduate/)
Journalism, Advertising, and Media Studies, Minor

The worlds of journalism, advertising, and public relations are changing at a rapid pace with the integration of social media, mobile apps, amateur photography and video, and instant feedback. UWM’s Department of Journalism, Advertising, and Media Studies (JAMS) is a great place to learn about the tools used today and to obtain the skills to adapt to the channels of tomorrow.

The Department of Journalism, Advertising, and Media Studies (JAMS) teaches students about the role of media in culture and society and offers hands-on experience in journalism and advertising/public relations. The JAMS major blends liberal arts education in media studies with professional training for work in media fields.

JAMS majors choose one of three concentrations based on their interests and career aspirations: journalism, advertising/public relations, and media studies; minors take a more general array of coursework.

Our students report news stories, run social media pages, produce short documentaries and podcasts, and research, plan, and conduct events for nonprofit organizations. JAMS students have several opportunities to learn outside the classroom through active clubs and organizations including a student chapter of the Public Relations Society of America, Ad Club, Journalism Club, The UWM Post, and the Minority Media Association. Student work is showcased on a student-powered online news site, Media Milwaukee. Many JAMS students have internships which earn major credits.

JAMS majors excel in careers in writing, reporting, editing, marketing, advertising, broadcasting, public relations, social media management, journalism, and more.

Requirements

A minor in journalism, advertising, and media studies consists of a minimum of 18 credits in journalism, advertising, and media studies including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional JAMS credits</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Additional Requirements

- At least 9 credits must be at the 300 level or above taken in residence at UWM.
- The College requires that students attain at least a 2.0 GPA on credits in the minor attempted at UWM.
- Students must attain a 2.0 GPA on all minor credits attempted, including transfer work.

Contact Information

Current Students contact the Department directly, jams-email@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/journalism-advertising-media-studies/undergraduate/

Media Studies, MA

As of Spring 2020, the MA in Media Studies has temporarily suspended admission.

Mediated communication brings information, persuasion, and entertainment to our neighborhoods, our nation, and our world. As the choices expand and the reach of the media becomes more global, media producers can be anyone from a major corporation to an individual activist with a Web site, and media consumers can interact with the products they encounter in a multitude of ways.

The MA in Media Studies offered through the Department of Journalism, Advertising, and Media Studies is wide ranging and interdisciplinary. The goal of the program is to foster knowledge and understanding of mass media and society through critical, cultural, historical, legal, ethical, or social scientific approaches. One particular emphasis of the program is the relationship between the media and the public interest.

The program is oriented toward academic study rather than instruction in technical skills. The curriculum focuses on research and critical thinking about the media. Students complete 24 credits of coursework and a 6-credit thesis. They work closely with their faculty advisors to design a course of study and to conduct original research for their theses.

Media studies graduate faculty members have national reputations for research in an array of specialties. Students in the master’s program also are active in research.

The program’s alumni apply what they have learned to a range of endeavors, including media-oriented careers and advanced academic work. An increasing number continue their education in PhD programs.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following departmental requirements to be considered for admission to the program:

1. Present an overall undergraduate grade point average of 3.00 or above.
2. Submit three letters of recommendation from persons capable of judging the applicant’s capacity for success in a graduate program of study.
3. Submit scores from the General Test section of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
4. Submit a sample of original writing in English — a piece of academic or professional work, or a brief essay about a topic of the applicant’s choice.

International students, in addition to satisfying the Graduate School’s requirements for English language proficiency, must submit TOEFL or IELTS scores sufficiently high to meet program standards.
Credits and Courses

Students must take 30 graduate credits, at least 24 of which must be in courses offered by the Department of Journalism, Advertising, and Media Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 700</td>
<td>Approaches to Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 701</td>
<td>Media Studies Research Design</td>
<td>3</td>
</tr>
<tr>
<td>Select at least two 800-level seminars offered by the Department of Journalism, Advertising, and Media Studies</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>JAMS 990</td>
<td>Research and Thesis (minimum of 6 credits)</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives
Select 12 additional graduate credits
Total Credits 30

Additional Requirements

Advisors
The department's graduate director initially advises students and helps them find a thesis advisor. Students consult with their advisors as they prepare their course plans and consider thesis topics. The thesis advisor guides the student in preparing a thesis proposal, provides advice on the thesis research, and chairs the thesis committee. In consultation with the graduate director, students may change thesis advisors.

Thesis
All students write a thesis based on original research. The thesis advisor chairs the thesis committee, which also includes two other members. The committee chair and at least one of the other committee members must be from the Department of Journalism, Advertising, and Media Studies. Normally, all members of a thesis committee will be members of the UWM graduate faculty. With the approval of the thesis advisor and the departmental graduate program committee, a student's thesis committee may include someone who is not a member of the UWM graduate faculty when such a person has at least a master's degree and greater expertise in the subject area than do available members of the graduate faculty.

The thesis advisor guides the student in writing a formal thesis proposal, which must be approved by the thesis committee. After the thesis proposal has been approved, the student carries out the proposed research.

The thesis committee evaluates the written thesis and conducts an oral examination at which the student defends his or her research. A student receives credit for the thesis only if all three members of the committee approve the thesis.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Language, Literature & Translation

MA in Language, Literature, and Translation (MALLT)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek, Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Programs

- Language, Literature, and Translation, MA (p. 1026)
- Language, Literature, and Translation, MA/Library and Information Science, MLIS (p. 1027)
- Language, Literature, and Translation, MA: Classics (p. 1028)
- Language, Literature, and Translation, MA: Comparative Literature (p. 1029)
- Language, Literature, and Translation, MA: Classical Greek (p. 1031)
- Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (p. 1032)
- Language, Literature, and Translation, MA: German Language, Literature, and Culture (p. 1033)
- Language, Literature, and Translation, MA: Interpreting (p. 1035)
- Language, Literature, and Translation, MA: Latin (p. 1036)
- Language, Literature, and Translation, MA: Linguistics (p. 1038)
- Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture (p. 1039)
- Language, Literature, and Translation, MA: Translation (p. 1041)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viktorija Bilić</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Heidelberg University, Germany</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Lorena Terando</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>State University of New York at Binghamton</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Leah Leone</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Kathryn Scholz</td>
<td>Senior Lecturer</td>
<td></td>
<td>University of Minnesota</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Amy Olen</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Texas, Austin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Language, Literature, and Translation, MA

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/.

Admission Requirements

Application Deadlines

The MA in Language, Literature, and Translation (MALLT) offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

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- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - Language concentrations: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - Translation tracks: competence on a qualifying examination.
   - Comparative Literature concentration: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - Linguistics concentration: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.
Standard Track
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30

Additional Requirements
Transfer of Credits
Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Language, Literature, and Translation, MA/Library and Information Science, MLIS
In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Credits and Courses
Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30

Important
You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

Note: The full requirements for MALLT concentrations appear below. Some electives are waived for the MLIS/MALLT program.

Linguistics Requirements
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
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</tr>
<tr>
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<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses 18

Total Credits 30

<table>
<thead>
<tr>
<th>Code</th>
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</table>

Total Credits 30

Important
You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

Note: The full requirements for MALLT concentrations appear below. Some electives are waived for the MLIS/MALLT program.

Linguistics Requirements
The following are the minimum course requirements for a concentration within the Standard Track:
### Core Seminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 708</td>
<td>Proseminar in Linguistics</td>
<td>6</td>
</tr>
<tr>
<td>MALLT 706</td>
<td>Seminar in Foreign Language Methodology and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>CURRINS 800</td>
<td>Master's Seminar in Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: (subtitle)</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Requirements

- **LINGUIS 461 Introduction to Phonology** 3 credits
- **LINGUIS 464 Introduction to Syntax** 3 credits
- Select three additional courses in Linguistics 9 credits
- Select three additional linguistics courses in or outside the Department of Linguistics

### Electives

- Select 9 credits in consultation with the student's advisor 1 9 credits

Total Credits 30 credits

1. May include up to 6 credits in MALLT 790.

### Spanish and Hispanophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select at least 15 graduate credits in Spanish</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30 credits

### Additional Requirements

Students interested in the MALLT/MLIS program will be expected to follow all of the requirements and standards as described in this section of the Catalog. Nine of the 30 credits normally required for a MALLT degree will be satisfied by courses taken in SOIS. In the coordinated degree program, MALLT thesis option credits will be in addition to the 21 required MALLT credits. Courses in related areas must be approved by the Coordinator of MALLT.

- See the MALLT and MLIS (https://catalog.uwm.edu/information-studies/library-information-science-mlis/) pages for more information.

### Language, Literature, and Translation, MA: Classics

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies—proffer opportunities in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033), Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up
deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses
No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits 30

Classics Requirements
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 18 credits of graduate-level coursework consisting of an equal number of credits in classical Greek and in Latin</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select two courses in related areas to give the program breadth</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 30

Additional Requirements
Transfer of Credits
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Language, Literature, and Translation, MA: Comparative Literature

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033), Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Comparative Literature Requirements
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Comparative Literature</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Additional Requirements

Transfer of Credits
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.
The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

### Language, Literature, and Translation, MA: Classical Greek

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031), Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks:** competence on a qualifying examination.
   - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

### Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

#### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits: 30
Classical Greek Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics 6
Select at least 15 graduate credits in Greek 15
Select three courses in related areas to give the program breadth 9

Total Credits 30

Additional Requirements

Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033), Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.
Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses
No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits 30

French and Francophone Language, Literature, and Culture Requirements
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in French</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits 30

Additional Requirements
Transfer of Credits
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Accelerated Program Option
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Language, Literature, and Translation, MA: German Language, Literature, and Culture
The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Classics, German Language, Literature, and Culture; (p. 1032); Italian Studies of the Classical and Medieval Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1039); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.
Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uw.edu) for more information.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uw.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- **The Standard Track** within which students may complete one of eight concentrations and
- **the Translation Track**, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

German Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in German</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Additional Requirements

Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT Program before completion of 12 credits of coursework.

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been
assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Language, Literature, and Translation, MA: Interpreting**

The Interpreting Track is designed for those considering careers as professional language interpreters.

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.
**Credits and Courses**
No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:
- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

**Standard Track**
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits 30

**Interpreting Requirements**
Students must earn thirty graduate credits, as indicated below. Admission is based in part on a qualifying examination.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 820 Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 709 Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 700 Consecutive Interpreting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 710 Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 711 Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 722 Simultaneous Interpreting (under development)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 730 Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 750 Advanced Modes of Interpreting (under development)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits which may include the following:</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 530 Business and Professional Aspects of Translation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 727 Project Management in Translation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 728 Editing for Translation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Translation</td>
<td></td>
</tr>
</tbody>
</table>

**Advanced Seminar in Translation**

| Total Credits | 30 |

1 In French, German, Spanish, Russian, Arabic and Italian to English, or English to Spanish

**Additional Requirements**

**Transfer of Credits**
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Language, Literature, and Translation, MA: Latin**

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033), Translation (p. 1041) (Professional Track or Research Track), and
Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038), Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

**Admission Requirements**

**Application Deadlines**

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**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

**Credits and Courses**

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

**Standard Track**

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

**Latin Requirements**

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Latin</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Transfer of Credits**

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic
or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

### Language, Literature, and Translation, MA: Linguistics

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

### Admission

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

### Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- **Standard Track**
  - thirty graduate credits required, six of which must be in core seminars in the language, literature, and linguistics areas. The student develops
a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of languages, literatures, and linguistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>linguistics area to permit concentration in the student's</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major area of interest. Select the remaining credits in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>related areas to give the program breadth.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

**Linguistics Requirements**
The following are the minimum course requirements for a concentration within the Standard Track.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Selected two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>LINGUIS 708</td>
<td>Proseminar in Linguistics</td>
<td></td>
</tr>
<tr>
<td>MALLT 706</td>
<td>Seminar in Foreign Language Methodology and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>CURRINS 800</td>
<td>Master's Seminar in Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: (subtitle)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Additional Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three additional courses in Linguistics</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select three additional linguistics courses in or outside the Department of Linguistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 9 credits in consultation with the student’s advisor</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

1 May include up to 6 credits in MALLT 790.

**Additional Requirements**

**Transfer of Credits**
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture**
The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies—cooperate in offering this interdisciplinary, master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis.

Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041) (Professional Track or Research Track), and Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038), Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   • **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   • **Translation tracks**: competence on a qualifying examination.
   • **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   • **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses
No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the **Standard Track** within which students may complete one of eight concentrations and
- the **Translation Track**, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

**Standard Track**
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics</td>
<td>24</td>
</tr>
</tbody>
</table>

**Spanish and Hispanophone Language, Literature, and Culture Requirements**

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Spanish</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Transfer of Credits**
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.
Language, Literature, and Translation, MA: Translation

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures, and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies—cooperate in offering this interdisciplinary, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1029); French and Francophone Language, Literature, and Culture (p. 1032); German Language, Literature, and Culture (p. 1033); Translation (p. 1041); Interpreting (p. 1035). In addition to these specific concentrations, students may pursue coursework in Classical Greek (p. 1031); Classics (p. 1028); Hebrew Studies, Italian Studies, Latin (p. 1036); and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1038); Spanish (p. 1039); Translation (p. 1041) or Interpreting (p. 1035) to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obliged to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits 30

Translation Track: Professional

The Professional track is designed for those considering careers as in-house or freelance translators who are not necessarily interested in further study at the doctoral level.

Students must earn thirty graduate credits, as indicated below; they may not count undergraduate credits earned in the Translation Certificate Program. Admission is based in part on a qualifying examination that
consists of a 300-word translation from the source to the target language and one 150-word essay in the target language.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MALLT/TRNSLN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT/TRNSLN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

**Language-Specific Concentrations**

Select one of the following: 6

- **French to English**
  - FRENCH 415: Introduction to Translation: French to English

- **German to English**
  - GERMAN 425: Introduction to German Translation
  - FRENCH/TRNSLN 716: Seminar in Advanced Translation: French to English
  - GERMAN 525: Seminar in Advanced German Translation

- **Spanish to English**
  - SPANISH/TRNSLN 707: Introduction to Translation: Spanish to English
  - SPANISH/TRNSLN 717: Seminar in Advanced Translation: Spanish to English

- **English to Spanish**
  - SPANISH 348: Introduction to Translation: English to Spanish

**Electives**

Select three electives (see below) 9

Total Credits 30

1 Or, for German concentrators, GERMAN 474.

Work in other languages may be possible with the approval of the coordinator, depending upon the availability of appropriate faculty members for language-specific independent study.

**Electives**

Select three courses from the following. Additional appropriate courses may be selected with the consent of the program coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MALLT/Translation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS/MALLT 708</td>
<td>Proseminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>MALLT 790</td>
<td>Thesis (up to 6 credits)</td>
<td>1-6</td>
</tr>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation (Previously FLL 525)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 720</td>
<td>Topics in Translation: (Subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>A course in the student’s area of translation specialization</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Translation course(s) in another language</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>

**Other Approved Electives**

- ENGLISH 434: Editing and Publishing 3
- ENGLISH 439: Information Design 3

**Translation Track: Research**

The Research track is designed for those considering further study at the doctoral level.

Students must earn thirty graduate credits, as indicated below; they may not count undergraduate credits earned in the Translation Certificate Program. Admission is based in part on a qualifying examination that consists of a 300-word translation from the source to the target language and one 150-word essay in the target language.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPLIT/TRNSLN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>MALLT/TRNSLTN 799</td>
<td>Reading and Research</td>
<td>3</td>
</tr>
<tr>
<td>Critical Theory</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Language-Specific Concentrations**

Select one of the following: 6

- **French to English**
  - FRENCH 415: Introduction to Translation: French to English
  - MALLT/TRNSLTN 709: Seminar in Literary and Cultural Translation

- **German to English**
  - GERMAN 425: Introduction to German Translation
  - MALLT/TRNSLTN 709: Seminar in Literary and Cultural Translation

- **Spanish to English**
  - SPANISH/TRNSLTN 707: Introduction to Translation: Spanish to English
  - MALLT/TRNSLTN 709: Seminar in Literary and Cultural Translation

- **English to Spanish**
  - SPANISH 348: Introduction to Translation: English to Spanish
  - MALLT/TRNSLTN 709: Seminar in Literary and Cultural Translation

**Electives**

Select three electives (see below) 9

Total Credits 30

1 Offered by MALLT, TRNSLTN or another department, with approval of student’s major professor.

Work in other languages may be possible with the approval of the coordinator, depending upon the availability of appropriate faculty members for language-specific independent study.

**Electives**

Select three courses from the following, in consultation with student's major professor according to the student's area of interest. Additional
appropriate courses may be selected with the consent of the program coordinator or major professor. The list below is not exhaustive.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A course in Reading Literature in Translation: Case Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A literature course in the student’s source language area</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A translation course(s) in the student’s C language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A course in translation or other critical theory (including courses offered by other departments and in languages other than English)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Thesis**

Up to 6 graduate credits may be earned by presentation of a satisfactory thesis. The student’s Major Professor, in consultation with the student, will recommend the names of a Thesis Director and two readers who, upon approval by the Coordinating Committee, will constitute the ad hoc Thesis Committee.

**Program Requirements**

**Comprehensive Examination**

The student must pass both written and oral examinations, prepared and administered by an Examining Committee. The composition of the committee is approved by the Coordinating Committee. If the student fails the examination, s/he may repeat it once, but no sooner than three months from the date of the first examination.

Comparative Literature students must demonstrate a reading knowledge of a second language other than English prior to taking their Comprehensive Examinations. Reading knowledge may be demonstrated by coursework in the specific language program or by written examination, to be determined with the Major Professor.

**Additional Requirements**

**Transfer of Credits**

Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Latin American and Caribbean Studies**

UWM graduates in the 21st century will participate in a globalized economy with corresponding internationalization of the mass media, education and the arts. As the United States draws even closer to its neighbors in the Americas, students in the Latin American and Caribbean Studies Undergraduate Certificate Program (LACS) will be especially well prepared for this complex and ever-changing world.

**Programs**

- Latin American and Caribbean Studies, Undergraduate Certificate (p. 1043)

**Latin American and Caribbean Studies, Undergraduate Certificate**

Like a departmental minor, the LACS undergraduate certificate offers a specific academic focus but differs by being interdisciplinary, allowing students to combine related courses in different disciplines to explore common themes. Students who earn a certificate demonstrate their intellectual commitment to a subject and their competence in scholarly areas, which can prove valuable at the graduate level or in the workplace.

Numerous study abroad opportunities are available to students in any of these programs, including short-term and longer-length. Most students start planning their study abroad experience early in sophomore year for trips that take place in junior year. Popular destinations include Mexico, Cuba, Brazil, Peru, Ecuador, Argentina, and Chile.

**Eligibility**

The Certificate in Latin American and Caribbean Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements.

Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.
Requirements

You are strongly advised to consult both the Latin American and Caribbean Studies advisor and your L&S advisor to ensure you stay on track towards a degree.

Proficiency in a language (other than English) widely spoken in Latin America or the Caribbean is required. The Center for Latin American and Caribbean Studies will determine which languages will satisfy the certificate. This requirement may be fulfilled by either:

1. successful completion (with a grade of C or above) of any upper-level (numbered 300 or above) course in the target language; or
2. successful completion of a language proficiency examination.

Exceptions to this requirement must be approved by the LACS Certificate Committee.

Students must complete 21 credits in Latin American and Caribbean content courses, 12 of which must be at the 300 level or above. The 21 credits include one required course, LACS 101. Students must take courses in at least two curricular areas, although three areas are recommended. No more than 12 credits in any one curricular area may be counted towards the certificate program, and no more than 3 credits may be in independent study courses. In addition to any Latin American content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean, an additional three credits for participating also may be counted, if courses are taken within an immersion setting (as determined by the Center for Latin American and Caribbean Studies). A 2.750 GPA or better must be achieved in all UWM coursework and in all certificate credits. At least 12 credits of the Latin American/Caribbean content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean is required. The Center for Latin American and Caribbean Studies, Undergraduate Certificate track towards a degree.

Students must complete 21 credits in Latin American and Caribbean content courses, 12 of which must be at the 300 level or above. The 21 credits include one required course, LACS 101. Students must take courses in at least two curricular areas, although three areas are recommended. No more than 12 credits in any one curricular area may be counted towards the certificate program, and no more than 3 credits may be in independent study courses. In addition to any Latin American content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean, an additional three credits for participating also may be counted, if courses are taken within an immersion setting (as determined by the Center for Latin American and Caribbean Studies). A 2.750 GPA or better must be achieved in all UWM coursework and in all certificate credits. At least 12 credits of the Latin American/Caribbean content courses must be completed at UWM.

Courses that meet the certificate requirements include, but are not limited to, those in the following list. For the most current list of Latin American and Caribbean content courses, see the Center for Latin American and Caribbean Studies (http://uwm.edu/clacs/), located at NWQ B 2484.

African and African Diaspora Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 299</td>
<td>Ad Hoc: (Sex in the Caribbean)</td>
<td>1-6</td>
</tr>
<tr>
<td>AFRIC 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 411</td>
<td>Change in African-American Communities</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
</tbody>
</table>

Anthropology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 225</td>
<td>The Aztec Empire</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
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<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
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<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
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Art History

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<tr>
<td>ARTHIST 104</td>
<td>African, New World and Oceanic Art and Architecture</td>
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<td>ARTHIST 251</td>
<td>Introduction to the Art and Architecture of Latin America</td>
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<td>ARTHIST 367</td>
<td>Latin American Modernisms</td>
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<td>ARTHIST 372</td>
<td>Art of the Inca and their Ancestors</td>
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<td>ARTHIST 373</td>
<td>Art of Ancient Mexico and Central America</td>
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<td>ARTHIST 375</td>
<td>Art of the Aztec Empire</td>
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<td>ARTHIST 474</td>
<td>Maya Art</td>
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<tr>
<td>ARTHIST 499</td>
<td>Ad Hoc: (Modern Art of Latin America)</td>
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Atmospheric Sciences

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<tr>
<th>Code</th>
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<tr>
<td>ATM SCI 297</td>
<td>Study Abroad: (Mexico - Air Pollution and Ancient Cultures)</td>
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</tr>
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<td>ATM SCI 497</td>
<td>Study Abroad: (Mexico - Air Pollution and Ancient Cultures)</td>
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Biological Sciences

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<tbody>
<tr>
<td>BIO SCI 297</td>
<td>Study Abroad: (Ecology of Tropical Streams in Costa Rica)</td>
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</tr>
<tr>
<td>BIO SCI 497</td>
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Comparative Literature

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<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century: (Women and War in Latin America and the Caribbean)</td>
<td>3</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (Cowboys, Gauchos, and Other Narratives of the Frontier)</td>
<td>3</td>
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<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: (Gender and the Historical Novel or Women and War)</td>
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<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (Literary and Artistic Perspectives on Prostitution)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Narratives in Torture)</td>
<td>3</td>
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<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (Comparative Caribbean)</td>
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Conservation and Environmental Sciences

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<tbody>
<tr>
<td>CES 297</td>
<td>Study Abroad: (Ecology of Tropical Streams in Costa Rica)</td>
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</tr>
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<td>CES 497</td>
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Latin American and Caribbean Studies, Undergraduate Certificate
### Dance
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<tr>
<td>DANCE 370</td>
<td>World Movement Traditions: (Argentinian Tango)</td>
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<td>First-Year Seminar: (Prosperity, Poverty, and Economic Justice)</td>
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<td>ECON 353</td>
<td>Economic Development</td>
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<tr>
<td>ENGLISH 297</td>
<td>Study Abroad: (<em>Mexico and Cuba - Comparative Globalization</em> subtitle)</td>
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<tr>
<td>ENGLISH 316</td>
<td>World Cinema:</td>
<td>3</td>
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<tr>
<td>ENGLISH 320</td>
<td>Studies in Film Authorship: (Cuban and Mexican Filmmakers)</td>
<td>3</td>
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<tr>
<td>ENGLISH 366</td>
<td>Non-Fiction Prose: (Caribbean Nonfiction)</td>
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<tr>
<td>ENGLISH 463</td>
<td>Writers in African-American Literature: (Caribbean Literature)</td>
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<tr>
<td>ENGLISH 497</td>
<td>Study Abroad: (Mexico and Cuba - Comparative Globalization)</td>
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<tr>
<td>ENGLISH 625</td>
<td>Seminar in Literary History: (Caribbean Literary History)</td>
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### Film Studies
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<td>Studies in Film Authorship: (Cuban and Mexican Filmmakers)</td>
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<td>HIST 180</td>
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<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
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<tr>
<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History.</td>
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### Latin American and Caribbean Studies
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<tbody>
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<td>Introduction to Latin American and Caribbean Studies</td>
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### Political Science
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<tbody>
<tr>
<td>POL SCI 320</td>
<td>Politics of Developing Countries</td>
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<td>POL SCI 325</td>
<td>Latin American Politics</td>
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<tr>
<td>POL SCI 326</td>
<td>Brazilian Politics and Society</td>
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<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
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### Portuguese
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<tr>
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<td>First-Semester Portuguese</td>
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<tr>
<td>PORTUGS 104</td>
<td>Second-Semester Portuguese</td>
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<td>PORTUGS 110</td>
<td>Accelerated Portuguese I</td>
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<td>PORTUGS 192</td>
<td>First-Year Seminar: (History of Brazil)</td>
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<tr>
<td>PORTUGS 203</td>
<td>Third-Semester Portuguese</td>
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<td>PORTUGS 204</td>
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<td>PORTUGS 225</td>
<td>Understanding Brazil:</td>
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<td>PORTUGS 297</td>
<td>Study Abroad: (The African Presence in Brazil)</td>
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<td>PORTUGS 310</td>
<td>Advanced Composition and Conversation</td>
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<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture:</td>
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<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation:</td>
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<td>Seminar in Luso-Brazilian Literature</td>
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<td>PORTUGS 497</td>
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<tr>
<td>PORTUGS 499</td>
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### Spanish
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<td>SPANISH 192</td>
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<td>SPANISH 203</td>
<td>Third-Semester Spanish</td>
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<td>SPANISH 204</td>
<td>Fourth-Semester Spanish</td>
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<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
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<td>SPANISH 315</td>
<td>Spanish Immersion Experience</td>
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<td>SPANISH 318</td>
<td>Advanced Speaking and Listening</td>
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<td>SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
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Urban Planning

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<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning: (Latino Cities)</td>
<td>1-3</td>
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</table>

Contact Information

Current Students contact Advisor Alida Cardos Whaley, alida@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/latin-american-caribbean-us-latino-studies/certificates/latin-american-caribbean-studies-certificate/

Latin American, Caribbean, and U.S. Latinx Studies

Uniquely UWM, Latin American, Caribbean, and U.S. Latinx Studies integrates the study of peoples and culture of Latin America and the Caribbean with the study of Latinx communities in the United States. Most other programs focus on one or the other. Alumni work statewide or abroad in health services, education, nonprofits, business, and government. An accelerated program leads to both the BA and a master's in translation in five years.

(*Latinx* (Lah-teen-eks) is an inclusive term used to embrace all gendered and non-gendered identities of peoples with Latin American ancestry. *Latinx* specifically refuses to further silence and erase trans (non-binary and binary) gender non-conforming, non-binary, and genderqueer people.

**Programs**

- Latin American, Caribbean, and U.S Latinx Studies, BA (p. 1047)

---

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Maria-Antonieta Avila</td>
<td>Assistant Professor (Curriculum and Instruction)</td>
<td>PhD</td>
<td>University of Texas</td>
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<tr>
<td>Nancy Bird-Soto</td>
<td>Associate Professor (Spanish and Portuguese)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Natasha Borges Sugiyama</td>
<td>Associate Professor (Political Science)</td>
<td>PhD</td>
<td>University of Texas</td>
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<tr>
<td>Brenda Cárdenas</td>
<td>Associate Professor (English)</td>
<td>PhD</td>
<td>University of Michigan-Ann Arbor</td>
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<tr>
<td>Sarah Davies Cordova</td>
<td>Professor (French, Italian, and Comparative Literature)</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
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<tr>
<td>Christopher Davis-Benavides</td>
<td>Professor (Art and Design)</td>
<td>MFA</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Raoul Deal</td>
<td>Senior Lecturer (Cultures and Communities)</td>
<td>MFA</td>
<td>Universidad Nacional Autónoma de México</td>
<td></td>
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<tr>
<td>César Ferreira</td>
<td>Professor (Spanish and Portuguese)</td>
<td>PhD</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Simone Ferro</td>
<td>Professor (Dance)</td>
<td>MFA</td>
<td>University of Iowa</td>
<td></td>
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<tr>
<td>Enrique Figueroa</td>
<td>Associate Professor (Urban Planning)</td>
<td>PhD</td>
<td>University of California, Davis</td>
<td></td>
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</tr>
</tbody>
</table>
Latin American, Caribbean, and U.S. Latinx Studies, BA

UWM students interested in pursuing advanced knowledge about the varied cultures, histories, languages, and origins that are included within Latinx populations have three different programs to choose from, including a major and two different certificates.

UWM students in the Latin American, Caribbean, and U.S. Latinx Studies (LACUSL) major learn about the many different histories, cultures, and modern issues of Latinx peoples from all three regions - Latin America, the Caribbean, and the United States. It is among a small handful of programs nationwide to explore both Latinx communities in the U.S. as well as those in Latin America and the Caribbean; most programs focus on one or the other. Coursework spans several departments, including history, sociology, the arts, political science, anthropology, languages and literature, giving students many different lenses through which to look.

Many students choose this major because they intend to work with the Latinx population in some way. They may be going into health services, education, manufacturing, business, nonprofit work, social services, trade, or government work. Regardless of industry, they understand that the impact of globalization is growing and they recognize the increasing importance of Latin American countries and Latinx communities in the U.S. as political and economic forces.

Students more interested in the experience of Latinx communities within the United States might find our certificate in Latino Studies well-suited to their personal and professional goals. A certificate is similar to a minor in terms of number of credits, but like the interdisciplinary LACUSL major mentioned above, it draws on classes from many different subject areas. Students can expect to take classes from history, English, Spanish, educational policy, and sociology.

Students more interested in Latin America and the Caribbean should explore the certificate in Latin American and Caribbean Studies in more detail.

Both certificates are excellent complements to other majors both within the College of Letters & Science as well as professional degrees such as business, education, nursing or health sciences.

Numerous study abroad (https://uwm.edu/cie/study-abroad/) opportunities are available to students in any of these programs, including short-term and longer-length. Most students start planning their study abroad experience early in sophomore year for trips that take place in junior year. Popular destinations include Mexico, Cuba, Brazil, Peru, Ecuador, Argentina, and Chile.

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<th>Code</th>
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<tr>
<td></td>
<td>Oral and Written Communication</td>
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<td><strong>Part A</strong></td>
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<tr>
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<td>Achieve a grade of C or better in the following course:</td>
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<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<td><strong>Part B</strong></td>
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<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td>Quantitative Literacy</td>
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<tr>
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<td><strong>Part A</strong></td>
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<tr>
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<td>Achieve a grade of C or better in one of the following:</td>
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</table>
MATH 102  Mathematical Literacy for College Students II

MATH 103  Contemporary Applications of Mathematics

MATH 105  Introduction to College Algebra

MATH 108  Algebraic Literacy II

MATH 111  Introduction to Logic - Critical Reasoning

or PHILOS 111  Introduction to Logic - Critical Reasoning

MATH 116  College Algebra

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

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<tr>
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<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
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<td>MATH 105</td>
<td>Introduction to College Algebra</td>
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<td>MATH 108</td>
<td>Algebraic Literacy II</td>
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<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
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<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
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<td>MATH 116</td>
<td>College Algebra</td>
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<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
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</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than
English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

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IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
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</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
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<th>Credits</th>
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<td></td>
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</tr>
</tbody>
</table>

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Major Requirements

Students are required to complete a minimum of 33 credits in the major, at least 15 of which must be taken at the advanced level (300 and above) in residence at UWM. The College requires that all students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

With approval of program coordinator, a relevant course not currently listed above may be substituted.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>** Students should check their course selections carefully with the list of approved L&amp;S Breadth Courses (<a href="http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/">http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/</a>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&amp;S Breadth requirement. ** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.</td>
<td></td>
</tr>
</tbody>
</table>

Introductory

LACS 101 Introduction to Latin American and Caribbean Studies 3
LATINO 101 Introduction to Latino Studies 3

Latinx and Latin American-Caribbean Integrative Content

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 365 Literatures and Cultures of the Americas: (subtitle)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CURRINS 550 Using Children's Literature to Explore Latin Am/Latino Cultural Heritage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 316 World Cinema: (with appropriate subtitle)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ENGLISH 394  Theories of Mass Culture: (Latino and Latin American Popular Culture)  
HIST 372  Topics in Global History:  
LACUSL 200  Special Topics in Latin American, Caribbean, and U.S. Latinx Studies:  
LACUSL 300  Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies:  
LACUSL/THEATRE 324  Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre  
LACUSL 699  Advanced Independent Study  

Capstone  
LACUSL 680  LACUSL Senior Research Project \(^1\) 3  
or LACUSL 699  Advanced Independent Study  

Electives  
Select 18 credits (see below) 18  

Total Credits  33  

\(^1\) In semesters when LACUSL 680 is not offered, students may complete the capstone requirement by taking LACUSL 699, with an appropriate faculty member from the LACUSL associated faculty. L&S guidelines require that the student:  
1. conduct independent research;  
2. evaluate and integrate prior research; and  
3. present the findings in a professional manner and context; and that the sponsoring faculty member provide clear guidelines on how performance will be evaluated.  

The student also may substitute an existing course in one of the curricular codes represented by the major’s electives, provided that it satisfies the L&S research requirement for that major and provided that the major research project undertaken as part of that course has a distinctly LACUSL topic.

Electives  
Electives may be selected from integrated courses as well as from the three course clusters listed below. Students must take at least two courses from Artistic Expression, at least two from Social and Natural Sciences, and up to two from Language and Communication Skills. At least three different departmental curricular codes must be represented among the electives. A course taken to satisfy the integrative requirement may not count as an elective. A maximum of 3 credits in an internship (LACUSL 289 or LACUSL 489) may count as an elective for the major.  

With approval of program coordinator, a relevant course not currently listed below may be substituted.

Artistic Expression  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 104</td>
<td>African, New World and Oceanic Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 251</td>
<td>Introduction to the Art and Architecture of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 367</td>
<td>Latin American Modernisms</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 373</td>
<td>Art of Ancient Mexico and Central America</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 375</td>
<td>Art of the Aztec Empire</td>
<td>3</td>
</tr>
</tbody>
</table>

COMPLIT 365  Literatures and Cultures of the Americas: 3  
CURRINS 550  Using Children’s Literature to Explore Latin Am/Latino Cultural Heritage 3  
DANCE 414  Dance Composition III 2-3  
ENGLISH 279  Introduction to U.S. Latino/a Literature: 3  
ENGLISH 316  World Cinema: 3  
ENGLISH 374  Survey of U.S. Latino/a Literature: 3  
ENGLISH 394  Theories of Mass Culture: 3  
ENGLISH 523  Studies in U.S. Latino/a Literature: 3  
LACUSL/THEATRE 324  Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre 3  
PORTUGS 225  Understanding Brazil: 3  
PORTUGS 360  Luso-Brazilian Culture: 3  
PORTUGS 380  Luso-Brazilian Literature in Translation: 3  
PORTUGS 457  Seminar in Luso-Brazilian Literature: 3  
SPANISH 371  Introduction to Latino Literature in English: 3  
SPANISH 373  Topics in Latino Literature in English: 3  
SPANISH 472  Survey of Spanish-American Literature and Civilization: 3  
SPANISH 507  Seminar in Spanish-American Literature: 3  
SPANISH 575  Seminar in 18th & 19th Century Spanish-American Literature & Civilization: 3  
SPANISH 577  Seminar in Modern Spanish-American Literature and Civilization: 3  

Social and Natural Sciences  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 225</td>
<td>The Aztec Empire</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 497</td>
<td>Study Abroad: (Peru Past and Present, Archaeological Perspectives)</td>
<td>1-12</td>
</tr>
<tr>
<td>ATM SCI 297/497</td>
<td>Study Abroad: (Air Pollution and Ancient Cultures)</td>
<td>1-12</td>
</tr>
<tr>
<td>BIO SCI 297/ ATM SCI 497</td>
<td>Study Abroad: (Tropical Biology)</td>
<td>1-12</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 212</td>
<td>Educational Issues in Spanish Speaking Communities</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 460</td>
<td>The Chicano Experience</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 560</td>
<td>Education and Hispanics</td>
<td>3</td>
</tr>
</tbody>
</table>
Students are allowed to count up to two courses from this cluster.

Language and Communication Skills

Students are allowed to count up to two courses from this cluster. Courses from this cluster are not required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 200</td>
<td>Racial Minorities in the United States</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 303</td>
<td>Conversation and Composition: Intermediate Level</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 401</td>
<td>French for Reading Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 450</td>
<td>Race and Ethnicity in the Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwu.edu/campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a
Latino Studies, Undergraduate Certificate

Latinos are the fastest growing minority population in the United States, numbering between 50 and 60 million today. Our interdisciplinary program allows students in many majors to complete their existing studies while also deepening knowledge about the experience of the Latin American and Caribbean diaspora in the U.S.

With demographic trends and the need to work with diverse groups, employers will appreciate your specialized training in Latino Studies. The certificate complements academic fields in Letters & Science (Spanish, Sociology, Anthropology, History, and Political Science among others) as well as professional fields such as Business, Criminal Justice, Health Science, Nursing, and Social Welfare. Latino Studies courses also count towards the major in Latin American, Caribbean, and U.S. Latino Studies.

Students will find answers to these questions:

- Who are Latinos?
- Why has the U.S. Latino population grown so rapidly in recent years? Which groups are growing the fastest?
- How have immigration policies affected population growth and change?
- How do Latinos engage in politics of their communities, states, and the nation?
- Why has their growth spurred so much electoral attention?
- What challenges do Latinos face in terms of racism, sexism, and discrimination?
- What contributions have Latinos made to US art, music, and literature?
- What is the history of Mexicans, Puerto Ricans, and Cubans in the U.S. from the 1600s to the present?

A certificate in Latino Studies is similar to a minor, in that it demonstrates you’ve achieved substantial knowledge in this interdisciplinary area of study.

The mission of the multidisciplinary Certificate in Latino Studies is twofold:

1. To enable students to understand and evaluate the impact of Latinos on the history, culture, politics, and economy of the United States, and
2. To foster the development of new, critical approaches that enable students to transform their world views and apply sound principles in their professional and personal interactions.

Eligibility

The Undergraduate Certificate Program in Latino Studies is open to any University of Wisconsin-Milwaukee undergraduate who has completed at least 15 credits, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor’s degree and
non-degree students receive the certificate upon completion of the program requirements.

**Requirements**

To obtain the certificate, students must complete 21 credits in approved Latino courses, including 12 credits at the 300 level and above, with a minimum grade point average of 2.500. Students must select courses from at least three curricular areas, including LATINO 101. No more than 12 credits in a single curricular area may count toward the certificate, and a maximum of 3 credits of independent study may be applied to the 21 credit requirement. At least 12 credits for the certificate must be completed in residence at UWM, with at least 9 of the residence credits at the 300 level and above. For additional program information, contact the Latino Studies Coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATINO 101</td>
<td>Introduction to Latino Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 18 credits from the following:

- ANTHRO 313: Archaeology of the American Southwest
- Currins 542: History and Politics of Second Language Education
- Currins 550: Using Children’s Literature to Explore Latin American/Caribbean Heritage
- Ed Pol 212: Educational Issues in Spanish Speaking Communities
- Ed Pol 460: The Chicano Experience
- Ed Pol 560: Education and Hispanics
- English 279: Introduction to U.S. Latino/a Language Education
- English/Filmstd 316: World Cinema: (Latin and Latin American Women Directors)
- English 374: Survey of U.S. Latino/a Literature
- English 394: Theories of Mass Culture: (Latin and Latin American Popular Culture)
- English 523: Studies in U.S. Latino/a Language:
- Ethnic 250: Selected Topics in Ethnic Studies: (Women as Migrant Workers)
- Hist 200: Historical Roots of Contemporary Issues: (U.S.-Mexico Borderlands)
- Hist 267: The History of Latinos in the United States
- Hist 372: Topics in Global History: (History of Media: Latin American and U.S. Latino Worlds)
- Lacusl 200: Special Topics in Latin American, Caribbean, and U.S. Latino Studies:
- Lacusl 300: Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies:
- Lacusl/Theatre 324: Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre
- Latino 199: Independent Study
- Latino 201: Special Topics in U.S. Latino Studies:
- Latino 301: Advanced Topics in U.S. Latino Studies: (Subtitle)

**Contact Information**

Current Students contact Professor Joe Rodriguez, joerod@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/latin-american-caribbean-us-latino-studies/certificates/latexstudies/

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**Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies**

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies investigates the historical and contemporary experiences of people traditionally neglected in scholarship and courses. It explores questions about sexuality as well as identity, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant. Work in this innovative field includes material and methods from many disciplines: English and foreign languages, health professions, anthropology, art history, biology, communications, economics, fine arts, history, music, nursing, political science, psychology, sociology, social welfare, and women’s and gender studies.

**Programs**

- Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate (p. 1053)

**Contact Information**

Cary Gabriel Costello, Associate Professor, Sociology

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate

The Undergraduate Certificate in Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies explores questions about sexuality, identity, gender,
community, representation, diversity, assimilation, and discrimination that are both academically and socially significant.

This certificate is designed for all students, regardless of major, who have an interest in learning more about the history and contemporary life of LGBT individuals. Students who earn the LGBT Studies certificate are prepared for careers that involve interaction with people of diverse backgrounds in areas such as business, education, healthcare, and law. Some graduates go on to work in social services or public affairs, promoting equality in legislation and policy.

Coursework in this program is interdisciplinary and includes materials and methods from many fields, including Africology, anthropology, communication, comparative literature, economics, English, ethnic studies, film studies, health sciences, history, linguistics, music, nursing, political science, psychology, social welfare, sociology, theatre, and women’s and gender studies.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

**Eligibility**
The LGBT Studies Undergraduate Certificate is designed for students majoring in any field who wish to complement their study of a discipline with an additional concentration in lesbian, gay, bisexual, and transgender studies. Any student in good standing at the University of Wisconsin-Milwaukee who is seeking a bachelor’s degree or who previously received a bachelor’s degree from UW or any other accredited college or university is eligible to participate in the certificate program. The program also is open to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements.

**Requirements**
The LGBT Studies Undergraduate Certificate requires completion of 18 credits in approved courses, with a minimum GPA of 2.00, as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGBT 200</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 301</td>
<td>Queer Theory</td>
<td>3</td>
</tr>
<tr>
<td>LGBT 599</td>
<td>Selected Topics in LGBT Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**
Select 9 credits of approved LGBT Studies curricular area or cross-listed coursework, of which 3 credits must be in courses numbered 300 or above.

Students are limited to a maximum of 6 credits in independent study and no more than 9 credits from any one curricular area outside of LGBT Studies. At least half the credits must be taken in residence at UWM, and no courses may be taken on a credit/no credit basis.

Credits earned at other institutions in equivalent LGBT courses, as well as credits earned and approved through study abroad, are accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than nine credits from courses at other institutions to the program requirements.

**Approved Electives**
The following courses are approved to count toward the LGBT Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinator and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 400</td>
<td>Human Sociobiology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 445</td>
<td>Psychological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 201</td>
<td>Sexually Transmitted Diseases and AIDS</td>
<td>3</td>
</tr>
<tr>
<td>BMS/COMSDIS/HCA/KIN/OCCTHPY/THERREC 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 401</td>
<td>Communication in Marital and Family Relationships</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 402</td>
<td>Gender and Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 410</td>
<td>Organizational Communication Technology</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 681</td>
<td>Seminar in Communication in a World of AIDS</td>
<td>3</td>
</tr>
<tr>
<td>ECON 248</td>
<td>Economics of Discrimination</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 532</td>
<td>Male Identity: Education and Development</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 629</td>
<td>Seminar in Literature and Sexuality.</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 275</td>
<td>Queer Migrations</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 141</td>
<td>Global History of the Family, Gender, and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 243</td>
<td>History of Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Topics in Gender and History.</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 111</td>
<td>Gender and the Media</td>
<td>3</td>
</tr>
<tr>
<td>KIN 351</td>
<td>Sociological Aspects of Health and Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 212</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 262</td>
<td>Exploring Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 235</td>
<td>Philosophical Aspects of Feminism</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
<td>3</td>
</tr>
</tbody>
</table>
cultural and intellectual horizons through a carefully structured course and Science and augmented by other interested instructors from across taught by graduate faculty drawn primarily from the College of Letters and Science. All courses are conceived exclusively for the program, electives taken in specific consists of small introductory seminars, special topics courses.

The College of Letters and Science offers an interdisciplinary graduate program leading to a Master of Liberal Studies. The MLS curriculum consists of small introductory seminars, special topics courses conceived exclusively for the program, electives taken in specific departments, and a final thesis or independent project. All courses are taught by graduate faculty drawn primarily from the College of Letters and Science and augmented by other interested instructors from across the University. Such faculty diversity allows students to expand their cultural and intellectual horizons through a carefully structured course of study that encourages multiple perspectives on important issues and integration of knowledge across disciplines.

The MLS program is housed in the internationally respected Center for Twenty-first Century Studies, which ensures access to leading scholars, outstanding facilities, special lectures and other events. Each fall a limited class of new students is admitted in order to maintain an intimate learning environment, and all courses are offered during evenings. Although the MLS is not a traditional graduate degree that focuses on a single academic field or set of professional skills, its emphasis on critical thinking, imaginative reflection, ethical consideration, and effective communication carries substantial value in both private and public life.

Contact Information
Current Students contact Associate Professor Cary Costello, costello@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Liberal Studies
Admission to the Master of Liberal Studies is suspended during the redesign of the program.

The College of Letters and Science offers an interdisciplinary graduate program leading to a Master of Liberal Studies. The MLS curriculum consists of small introductory seminars, special topics courses conceived exclusively for the program, electives taken in specific departments, and a final thesis or independent project. All courses are taught by graduate faculty drawn primarily from the College of Letters and Science and augmented by other interested instructors from across the University. Such faculty diversity allows students to expand their cultural and intellectual horizons through a carefully structured course of study that encourages multiple perspectives on important issues and integration of knowledge across disciplines.

The MLS program is housed in the internationally respected Center for Twenty-first Century Studies, which ensures access to leading scholars, outstanding facilities, special lectures and other events. Each fall a limited class of new students is admitted in order to maintain an intimate learning environment, and all courses are offered during evenings. Although the MLS is not a traditional graduate degree that focuses on a single academic field or set of professional skills, its emphasis on critical thinking, imaginative reflection, ethical consideration, and effective communication carries substantial value in both private and public life.

Note: Admission to the MLS is suspended during the redesign of the program.

Programs
Liberal Studies, MLS (p. 1055)
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
To be considered for admission to the Master of Liberal Studies, an applicant must meet the requirements for admission to the Graduate School. For international students, demonstration of English proficiency for MLS requires a minimum internet-based TOEFL score of 79 for regular graduate admission, 68-78 for dual admission, or a minimum IELTS score of 6.5. In addition, the applicant must submit an essay (two pages) describing why s/he is interested in pursuing graduate study in an interdisciplinary program and describing the educational background and life experiences that s/he brings to the program. An interview with the director of the program also is required.

Credits and Courses
Thirty credits are required for the MLS degree, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>Select an introductory two-course sequence (4 credits each course)</td>
<td>8</td>
</tr>
<tr>
<td>Special Topics</td>
<td>Select at least two courses from an array of special topics courses in a seminar format (3 credits each) offered under the LibrlSt curricular area number</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>Special topics courses offered under the MLS curricular area code</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate courses offered within departments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Graduate courses offered by departments or to undertake independent study</td>
<td>2</td>
</tr>
<tr>
<td>Culminating Project</td>
<td>LIBRLST 799 Independent Work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LIBRLST 798 Liberal Studies Master’s Project</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Select courses that are designed to orient the individuals to the program, to establish a common base of knowledge in an interdisciplinary context, and to create a sense of intellectual community among the participants, many of whom may be re-entering the world of formal education.

2 Although the core and special topics courses that are designed specifically for the Master of Liberal Studies will be emphasized in all programs of study, participants may wish to take graduate courses offered by departments or to undertake independent study in order to pursue specific interests.

3 This project, which must be interdisciplinary in nature, can take the form of a traditional research paper or thesis, but it also may adopt an alternative creative, performative, or occupationally related practical model. The project must be approved by the student’s advisor and the program director.

Additional Requirements

Major Professor as Advisor
As specified in the regulations of the Graduate School, a major professor will be assigned to every person enrolled in the program to advise and supervise his or her work. Those admitted to the program will consult with the Director of the Master of Liberal Studies program for assistance in identifying an appropriate advisor. The responsibility of the advisor will be to assist in selecting a cohesive sequence of courses and developing a rationale for that sequence. The major advisor must approve the program of study.

Transfer Credits
Individuals with prior graduate coursework may receive permission to count up to 9 credits of that work toward the Master of Liberal Studies if the Advisory Committee accepts the courses as relevant to the program of study and if the courses meet Graduate School requirements for transfer. Liberal Studies core courses and the culminating project course must be taken at the University of Wisconsin-Milwaukee.

Time Limit
All degree requirements must be completed within five years of initial enrollment.

Linguistics

Linguistics inquires into the nature of human language. In modern times, research in linguistics has concentrated on the search for universal properties of human languages in an effort to understand that unique characteristic of human beings, the faculty of language. Recognition of the importance of modern linguistic research continues to grow today, with research results now seen to have implications for numerous additional disciplines, including anthropology, computer science, education, ethnology, psychology, sociology, and speech pathology.

Many of the courses taught in the Linguistics Department form a required or recommended portion of the curricula of other academic programs.

Programs

- Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate (p. 1057)
- Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate (p. 1058)
- Linguistics, BA (p. 1059)
- Linguistics, MA (p. 1063)
- Linguistics, MA: Teaching English to Speakers of Other Languages (p. 1064)
- Linguistics, Minor (p. 1066)
- Linguistics, PhD (p. 1066)
- Teaching of English to Speakers of Other Languages and Applied Linguistics, MA (p. 1068)
Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate

UWM’s TESOL certificate prepares students for a career teaching English to non-English speaking adults. TESOL is an internationally-recognized acronym that denotes the holder of the certificate has received specialized training in the methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as a common language of communication has risen dramatically in the last few decades, and the demand for TESOL trained instructors is high in certain parts of the world. Asia, Central America, and South America are three particular hot spots where people have a strong desire learn English or improve their English language skills.

Students who love to travel often make a career out of traveling the globe, picking up jobs in various nations. Others stay closer to home and find similar positions in the U.S. teaching English to immigrants, visitors, foreign students, or others who have not learned English as their first language. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally-diverse communities.

The Adult/University-Level TESOL (Teaching English to Speakers of Other Languages) Graduate Certificate Program is designed to meet the needs of graduate non-degree students or graduate students concurrently enrolled in a UWM master’s or PhD program. Requirements for this program are very similar to those for the undergraduate-level “Adult/University-Level TESOL Certificate Program” but is more rigorous and can be applied (concurrently or subsequently) to the Master of Arts program in Linguistics.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

• Submit the following materials to the TESOL Certificate Program Coordinator in the Department of Linguistics:
  • Adult/University-Level TESOL Graduate Certificate Program application form (available from the Linguistics Department office).
  • Transcripts of all college-level academic work, with evidence of a GPA of 2.75 or better.
  • A statement of purpose.
  • Two letters of recommendation from persons knowledgeable about the applicant’s recent academic and/or work experience.
• Applicants who are not native speakers of English should also submit TOEFL scores of at least 550 (paper-based test) or 79 (internet-based test), or at least 6.5 on the IELTS exam, and 45 on the TSE, or an equivalent means of demonstrating proficiency.

Eligibility and Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

Credits and Courses
Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUI/SALLT 708</td>
<td>Proseminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUI 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>3</td>
</tr>
<tr>
<td>LINGUI 720</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUI/ENGLISH 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>LINGUI 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 570</td>
<td>Issues in Bilingualism</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
<td></td>
</tr>
<tr>
<td>LINGUI 715</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUI 761</td>
<td>Introduction to Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUI 764</td>
<td>Introduction to Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUI 768</td>
<td>Language in its Various Forms:</td>
<td></td>
</tr>
<tr>
<td>LINGUI 770</td>
<td>Historical and Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUI 861</td>
<td>Advanced Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUI 864</td>
<td>Advanced Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUI/ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
<td></td>
</tr>
<tr>
<td>LINGUI/ENGLISH 806</td>
<td>Seminar in Linguistics: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>LINGUI 789</td>
<td>Practicum in Teaching ESL to Adult Learners</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 21

Additional Requirements
Transfer Credit
No more than 6 credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program. Students who have completed any of the required courses for undergraduate credit must substitute other courses at the graduate level, selected in consultation with the certificate program coordinator to fulfill the credit requirements.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count toward a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
Current Students contact Associate Professor Sandra Pucci, pucci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/linguistics/tesol/

Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate

UWM’s TESOL certificate prepares students for a career teaching English to non-English speaking adults. TESOL is an internationally-recognized acronym that denotes the holder of the certificate has received specialized training in the methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as a common language of communication has risen dramatically in the last few decades, and the demand for TESOL trained instructors is high in certain parts of the world. Asia, Central America, and South America are three particular hot spots where people have a strong desire to learn English or improve their English language skills.

Students who love to travel often make a career out of traveling the globe, picking up jobs in various nations. Others stay closer to home and find
similar positions in the U.S. teaching English to immigrants, visitors, foreign students, or others who have not learned English as their first language. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally-diverse communities.

Eligibility

The Adult/University-Level TESOL Undergraduate Certificate Program is designed to meet the needs of students who wish to teach English as a Second Language (ESL) to adults or university-level students abroad. The program is open to undergraduates with at least junior standing, to post-baccalaureate special students, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Graduate students or post-baccalaureate non-degree students should pursue instead the "Adult/University-Level TESOL Graduate Certificate." Training in the graduate certificate program is more rigorous, and some credits earned can be transferred to the Linguistics Department MA program.

Undergraduate students concurrently completing a bachelor’s degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students receive the certificate upon completion of the required coursework and internship.

Requirements

Admission

Students who wish to apply to the program should submit the following materials to the TESOL Certificate Program Coordinator in the Department of Linguistics:

1. Adult/University-Level TESOL Undergraduate Certificate Program application form (available from the TESOL Certificate Program Coordinator);
2. Transcripts of all college-level academic work, with evidence of a GPA of 2.500 or better;
3. A statement of purpose; and
4. Two letters of recommendation from persons knowledgeable about the applicant’s recent academic and/or work experience.

Applicants who are not native speakers of English also should submit scores of at least 550 on the TOEFL exam and 45 on the TSE.

The teaching practicum is completed at one of the institutions affiliated with the certificate program. The site of the internship may be chosen by the student, but it must be approved by the certificate program staff. The student is expected to complete between 60 and 80 hours of supervised teaching over a period of a semester. Students who previously have taken any of the required courses while enrolled as non-degree undergraduate students or students in other undergraduate programs at UWM may transfer the credits earned into the certificate program, so long as the courses have been taken within the last five years. Students who have taken comparable undergraduate-level courses at other institutions may be allowed to transfer in up to 6 credits of coursework, upon approval of the certificate program coordinator.

There is a time limit of three years from initial enrollment for completion of the certificate.

Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below. All credits must be completed with a GPA of 3.0 or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/LINGUIS 570 or LINGUIS 430</td>
<td>Issues in Bilingualism or Language and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 561</td>
<td>Advanced Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 564</td>
<td>Advanced Syntax</td>
<td></td>
</tr>
</tbody>
</table>

Practicum

| ENGLISH/LINGUIS 569 | Practicum in Adult/University TESOL | 3       |

Total Credits 21

Contact Information

Current Students contact Associate Professor Sandra Pucci, pucci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/linguistics/tesol/

Linguistics, BA

Linguistics is the scientific study of language. Students of linguistics do not necessarily seek fluency in a second or third language. Instead, they study the components that make up any given language - the syntax, the grammar, the regional differences, the slang, the pronunciations, the symbols, the changes over time, how people learn a language, and more.

At UWM, Linguistics students can opt for a broad linguistics major which will touch on all aspects of language development and learning. Or, students can choose an applied linguistics major which will focus more on using the principles of linguistics in a business setting such as in the classroom to help students learn a second language, in a social service agency that deals with illiteracy, or at a software company working on search engine optimization terms.

Many students find that acquiring advanced fluency in a second or third language beyond their native tongue is helpful for understanding the commonalities and differences between languages. However, no additional foreign language is required beyond the standard requirement for Letters & Science students - four years in high school of the same language or four semesters in college of the same language.
Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td></td>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td></td>
<td>MATH 116</td>
<td>College Algebra</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Two semesters (college) of a single foreign language</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.</td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Mathematical Literacy for College Students II</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Contemporary Applications of Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Introduction to College Algebra</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Algebraic Literacy II</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Introduction to Logic - Critical Reasoning</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Introduction to Logic - Critical Reasoning</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>College Algebra</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Two semesters (college) of a single foreign language</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.
2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed one of the following:</td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td>0-18</td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ or CD) designation, L&S students must complete the Breadth requirement.

<table>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research
requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Linguistics Major Requirements
The undergraduate major in linguistics may be obtained by pursuing either the general major option or the applied major option. Students must complete 30 credits in either the general major option or the applied major option. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The College also requires students to complete a research experience in their major.

Major Options
General Linguistics Major Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 450</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
</tbody>
</table>

Special Requirements
Select at least three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 430</td>
<td>Language and Society</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 455</td>
<td>Semantics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 474</td>
<td>Language Typology and Language Universals</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 561</td>
<td>Advanced Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 564</td>
<td>Advanced Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 590</td>
<td>Morphology</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 6 credits

Total Credits: 30

Applied Linguistics Major Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Linguistics Major Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS/ANTHRO 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 430</td>
<td>Language and Society</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 450</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
</tbody>
</table>

Special Requirements
Select at least two of the following:

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<tbody>
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<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 432</td>
<td>Urban Dialects</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 440</td>
<td>Psycholinguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 567</td>
<td>Materials for ESL Instruction</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 6 credits

Total Credits: 30

1 Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

Linguistics Major Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td>Introduction to Second Language Acquisition</td>
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<tr>
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<td>Introduction to Phonology</td>
<td>3</td>
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<td>Introduction to Syntax</td>
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</tr>
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<td></td>
</tr>
</tbody>
</table>

Electives
Select 6 credits

Total Credits: 30

1 Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Assistant Professor Anne Pycha, pycha@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at

(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/linguistics/undergraduate/

Linguistics, MA

Related Certificates

- Adult/University-Level TESOL Graduate Certificate (http://uwm.edu/graduateschool/adult-university-level-tesol-certificate/)

Overview

The Department of Linguistics offers master's and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in linguistics or related field (e.g. languages, psychology, anthropology, philosophy).
2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Three letters of recommendation to the Department's Director of Graduate Studies from persons familiar with applicant's academic ability and achievement.
4. A sample of academic writing.

| GERMAN 451 | Introduction to German Linguistics | 3 |
| PHILOS 211 | Elementary Logic | 3 |
| PHILOS 212 | Modern Deductive Logic | 3 |
| PHILOS 511 | Symbolic Logic | 3 |
| PHILOS 516 | Language and Meaning | 3 |
| PHILOS 517 | Special Problems in the Philosophy of Language and Linguistics | 3 |
| SPANISH 341 | Introduction to Hispanic Linguistics | 3 |
| SPANISH 443 | Spanish Phonetics and Phonology | 3 |
| SPANISH 444 | Spanish Syntax and Morphology | 3 |
| SPANISH 446 | Hispanic Sociolinguistics | 3 |
| SPANISH 541 | History of the Spanish Language | 3 |

FallOf2020 1063
5. Though not required, submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) may enhance the application.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants should contact the Linguistics Department for additional information and deadlines.

### Credits and Courses

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework, submitting a final project, and passing an oral examination on the final project. Students who demonstrate a capacity for doctoral work and wish to earn a PhD at UWM are advised to proceed as rapidly as possible to doctoral status. No more than 30 credits earned at the master's level may be included in the 54 credits required for the PhD.

The MA in Linguistics requires 30 graduate credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 715 or LINGUIS 720</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 750</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 755</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 761</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 764</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 768 or LINGUIS 770</td>
<td>Language in its Various Forms: Historical and Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 12 elective credits distributed among 400- to 800-level courses in linguistics and related fields as approved by the student's major professor.

**Total Credits**

30

Students who completed any of the required courses as undergraduates will substitute another course selected in consultation with their major professor.

### Additional Requirements

**Major Professor as Advisor**

The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The director of graduate studies serves as an initial advisor. It is recommended that the student have a permanent advisor by the end of the second semester of enrollment.

**Final Project**

A research paper or other project appropriate to the student’s professional goals, to be defended in an individualized oral examination.

- Final project. The project is a research paper on a topic chosen in consultation with the student’s advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.
- Oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student’s program of study.

Regulations concerning final projects and oral examinations

1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student's internship. The project serves both as a concluding effort at the master's level and as an indication of the student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master's level is applicable to the PhD 54 credit requirement.

4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee's recommendation in writing and places it in the student's academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the additional credit(s) may not count toward the 30 credits required for the degree.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

### Linguistics, MA: Teaching English to Speakers of Other Languages

**Related Certificates**

- Adult/University-Level TESOL Graduate Certificate (http://uwm.edu/graduateschool/adult-university-level-tesol-certificate/)

### Overview

The Department of Linguistics offers master's and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found...
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in linguistics or related field (e.g., languages, psychology, anthropology, philosophy).
2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Three letters of recommendation to the Department's Director of Graduate Studies from persons familiar with applicant's academic ability and achievement.
4. A sample of academic writing.
5. Though not required, submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) may enhance the application.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants should contact the Linguistics Department office for additional information and deadlines.

Credits and Courses
Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework, submitting a final project, and passing an oral examination on the final project. Students who demonstrate a capacity for doctoral work and wish to earn a final project, and passing an oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student's program of study.

The MA in Linguistics requires 30 graduate credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Areas of Linguistics</strong></td>
<td></td>
</tr>
<tr>
<td>LINGUIS 715</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 720</td>
<td>Introduction to Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 750</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 755</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 761</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 764</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 768</td>
<td>Language in its Various Forms:</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 770</td>
<td>Historical and Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 12 elective credits distributed among 400- to 800-level</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>courses in linguistics and related fields as approved by the student's major professor</td>
<td></td>
</tr>
</tbody>
</table>

Students who completed any of the required courses as undergraduates will substitute another course selected in consultation with their major professor.

TESOL Concentration Requirements
Students may elect to complete a concentration in Teaching English to Speakers of Other Languages as part of their MA studies. The TESOL concentration requires that students complete the Linguistics, MA courses, and the TESOL Concentration courses as part of their electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS/MALLT 708</td>
<td>Proseminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/LINGUIS 569</td>
<td>Practicum in Adult/University TESOL</td>
<td>3</td>
</tr>
<tr>
<td>TESOL-Related Paper/Project</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 799</td>
<td>Independent Reading and Research for Master's Students</td>
<td></td>
</tr>
</tbody>
</table>

The TESOL concentration will be noted on the student's transcript.

Additional Requirements

Major Professor as Advisor
The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The director of graduate studies serves as an initial advisor. It is recommended that the student have a permanent advisor by the end of the second semester of enrollment.

Final Project
A research paper or other project appropriate to the student's professional goals, to be defended in an individualized oral examination.

- Final project. The project is a research paper on a topic chosen in consultation with the student's advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.

- Oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student's program of study.

Regulations concerning final projects and oral examinations

1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student's internship. The project serves both as a concluding effort at the master's level and as an indication of the student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master’s level is applicable to the PhD 54 credit requirement.

4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee’s recommendation in writing and places it in the student’s academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the additional credit(s) may not count toward the 30 credits required for the degree.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

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**Linguistics, Minor**

Linguistics is the scientific study of language. Students of linguistics do not necessarily seek fluency in a second or third language. Instead, they study the components that make up any given language - the syntax, the grammar, the regional differences, the slang, the pronunciations, the symbols, the changes over time, how people learn a language, and more.

At UWM, Linguistics students can opt for a broad linguistics minor which will touch on all aspects of language development and learning. Or, students can choose an applied linguistics minor which will focus more on using the principles of linguistics in a business setting such as in the classroom to help students learn a second language, in a social service agency that deals with illiteracy, or at a software company working on search engine optimization terms.

Many students find that acquiring advanced fluency in a second or third language beyond their native tongue is helpful for understanding the commonalities and differences between languages. However, no additional foreign language is required beyond the standard requirement for Letters & Science majors: four years in high school of the same language or four semesters in college of the same language.

**Requirements**

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including transfer work.

**General Linguistics Minor Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 9 credits

| Total Credits | 15 |

1. Coursework in linguistics and related areas selected in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

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**Applied Linguistics Minor Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 461</td>
<td>Introduction to Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 3 credits

| Total Credits | 18 |

1. Coursework in linguistics and related areas selected in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

---

**Contact Information**

Current Students contact Assistant Professor Anne Pycha, pycha@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at

(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/linguistics/undergraduate/

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**Linguistics, PhD**

**Related Certificates**

- Adult/University-Level TESOL Graduate Certificate (http://uwm.edu/graduateschool/adult-university-level-tesol-certificate/)

**Overview**

The Department of Linguistics offers master’s and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).
Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Students wishing to enter the PhD program in Linguistics, including those who hold a master's degree from elsewhere, must satisfy the requirements for the UWM Master of Arts degree in Linguistics. Students apply to the Graduate School for admission, which, in turn, forwards completed applications to the Department. The Department faculty then evaluates the applications and decides on admissions to the PhD program in Linguistics. Occasionally, an exceptionally well-qualified student will be admitted to the PhD program with a baccalaureate degree. The student must complete the requirements of the MA degree in the course of fulfilling the requirements for the PhD.

New students are admitted each year typically to begin in the Fall term. To be considered, all application materials normally must be received by the Graduate School no later than December 15. Admission materials will include:

- Completed Graduate School application.
- Official transcripts of previous work, including evidence of a master's degree either completed or in progress.
- Three letters of recommendation.
- Sample of written work.
- Statement of purpose.

In addition, students whose native language is not English must submit scores on the Test of English as a Foreign Language (TOEFL), or the equivalent. A score of at least 587 (TOEFL) is normally necessary for admission. The minimum score for the computer based TOEFL is 240, or 95 for the internet-based test (iBT).

Submission of Graduate Record Examination (GRE) results (http://uwm.edu/graduateschool/admission/#gre), though not required, is encouraged.

Credits and Courses

The PhD program requires a minimum of 54 credits beyond the BA. The 54 credits are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS 715</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 720</td>
<td>Introduction to Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 750</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 755</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 761</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 764</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 768</td>
<td>Language in its Various Forms:</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 770</td>
<td>Historical and Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 850</td>
<td>Advanced Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 855</td>
<td>Advanced Semantics</td>
<td>3</td>
</tr>
</tbody>
</table>

Seminars and Independent Study

Select 12 credits in 800-level linguistics seminars (Linguistics 801-806) and independent studies, at least 9 credits of which must be in seminars.

Electives

Select 12 elective credits, selected with approval of the student's major professor.

Total Credits

54

Additional Requirements

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's work as specified in Graduate School regulations. The Director of Graduate Studies serves as an initial advisor.

General Restrictions

Doctoral students may not count more than 9 credits in independent study toward the degree without the approval of the Director of Graduate Studies. No more than 18 credits may be counted in courses taken outside the Department of Linguistics.

Advising

Students are required to consult periodically with their Major Professor. The Major Professor helps the student to define an area of special interest within the concentration for the preliminary examination. The Major Professor also assists the student in the selection of appropriate coursework and may chair the Preliminary Examination Committee.

Foreign Language Requirement

All PhD candidates are required to demonstrate proficiency (reading knowledge) in a language other than English. The choice of language, and the means of demonstrating proficiency, must be approved by the student's Major Professor in consultation with the Director of Graduate Study.

Residence

The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examination

The doctoral preliminary examination consists of an oral defense of a major research paper submitted by the student typically after completing 39 to 45 credits toward the PhD degree. Though the scope of the examination, which usually lasts two hours, is open-ended, its focus is on the submitted research paper, which itself is intended to demonstrate the breadth and depth of a student's knowledge and the ability to conduct advanced research in one or more areas of study. The successfully-defended research paper should lead naturally to timely preparation of the dissertation proposal.

Students cannot take the preliminary examination if they have any incomplete or unreported grades or a GPA less than 3.0. The exam must be finished within one semester after all coursework is completed, excluding summer sessions. Students may receive from the Director of Graduate Studies a one semester extension for additional coursework. Students who do not complete the exam within this time frame will be considered to have failed the exam. The exam may be retaken only once, after making appropriate revisions to the research paper. Students who fail the preliminary examination may not proceed to the dissertation. The
exam must be passed within five years of initial enrollment in the doctoral program.

**Dissertation**
The dissertation topic, together with a comprehensive prospectus, must be approved by the student’s doctoral committee in a dissertation proposal hearing that should be held not later than the semester immediately following the preliminary examination. The dissertation proposal is typically, albeit not necessarily, a refinement and extension of the research paper defended in the oral preliminary examination. Though no specific length requirements are imposed on the dissertation itself, the Department considers 200 pages to be reasonable and representative.

**Dissertation Defense**
The completed dissertation is subject to an oral defense, to be arranged by the Major Professor in coordination with the Director of Graduate Study according to Graduate School regulations. A copy of the dissertation is kept in the Department office.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

**Teaching of English to Speakers of Other Languages and Applied Linguistics, MA**

The MA in TESOL (Teaching English as a Second Language) and Applied Linguistics prepares students for careers teaching adult learners of English as a second language in a variety of contexts. The program blends essential core linguistics with highly specialized training in methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as an international language of communication has increased dramatically in the last few decades, and the demand for highly trained TESOL professionals is great in many parts of the world. Graduates will be qualified for positions both abroad and in the US. Opportunities within the US may include teaching English to international students, immigrants, or other visitors. International contexts can range from university instruction, private language academies, as well as consultation with public schools. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally diverse communities.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
As with admission to other graduate programs in Linguistics, admission to the MA in TESOL and Applied Linguistics program will be determined based on the education, skills, experience, past academic performance, and interests of the applicant. The Department of Linguistics faculty will review each application to determine whether a student is qualified for admission to the program. In addition to meeting graduate school requirements for admission, potential students must provide three letters of recommendation from persons familiar with the applicant’s academic or professional work; a writing sample demonstrating the applicant’s critical thinking, research, and writing skills; and a current resume that clearly articulates the applicant’s professional, international, and intercultural experiences as well as language exposure and proficiencies.

## Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 567</td>
<td>Materials for ESL Instruction</td>
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<td>LINGUIS 720</td>
<td>Introduction to Second Language Acquisition</td>
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<td>LINGUIS 750</td>
<td>General Phonetics and Phonetics Practicum</td>
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<td>LINGUIS 761</td>
<td>Introduction to Phonology</td>
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<td>Introduction to Syntax</td>
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<td>LINGUIS 767</td>
<td>Methodologies and Approaches in Adult/University TESOL</td>
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<td>Practicum in Teaching ESL to Adult Learners</td>
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<tr>
<td>LINGUIS 799</td>
<td>Independent Reading and Research for Master's Students</td>
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<td>AD LDSP 757</td>
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<td>Assessment Issues in Language Education</td>
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<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
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<td>COMSDIS 711</td>
<td>Applied Speech Science</td>
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<td>LINGUIS 430</td>
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<td>LINGUIS 520</td>
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<td>LINGUIS 570</td>
<td>Issues in Bilingualism</td>
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<td>LINGUIS 708</td>
<td>Proseminar in Linguistics</td>
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<td>LINGUIS 755</td>
<td>Semantics</td>
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<tr>
<td>LINGUIS 806</td>
<td>Seminar in Linguistics: (Language Acquisition topic)</td>
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</table>

Total Credits: 33

1. Complete 3 credits.
2. 3 credits of independent work are required for the MA.

**Additional Requirements**

**Major Professor as Advisor**
The student must have a Major Professor to advise and supervise the student’s work as specified in Graduate School regulations. The director of graduate studies serves as an initial advisor. It is recommended that the student have a permanent advisor by the end of the second semester of enrollment.
Final Project
A research paper or other project appropriate to the student's professional goals, to be defended in an individualized oral examination.

- Final project. The project is a research paper on a topic chosen in consultation with the student's advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.
- Oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student's program of study.

Regulations concerning final projects and oral examinations

1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student's internship. The project serves both as a concluding effort at the master's level and as an indication of the student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master's level is applicable to the PhD 54 credit requirement.

4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee's recommendation in writing and places it in the student's academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the additional credit(s) may not count toward the 30 credits required for the degree.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Mathematical Sciences

The Department of Mathematical Sciences at the University of Wisconsin-Milwaukee is home to an active community of teachers, scholars, undergraduates, and graduate students. In addition to most traditional areas of Pure and Applied Mathematics, the department contains all UWM programs in Actuarial Science and Atmospheric Science.

The department offers Bachelor's, Master's, and Doctoral studies in all of these areas, in addition to several interdisciplinary programs. Established in 1963, the PhD in Mathematics is the original doctoral program at UWM, founded by Dr. Morris Marden (http://uwm.edu/math/graduate/resources/history-of-our-graduate-program/morris-mardens-biography/).

Mathematics is the principal language of modern science and technology. In such diverse areas as physics, engineering, economics, computer science, and biology, much of the subject matter is presented in mathematical terms. In addition, mathematical techniques are now being used in many areas which formerly were non-mathematical, for example, history, political science, psychology, and medicine.

Some students are drawn to mathematics because of the beauty they find in its structure and logic, others because it allows a deeper understanding of an allied area of study.

Actuarial science is the mathematical analysis of problems in economics, finance, and insurance. It requires knowledge of statistics, probability, and interest theory and how they relate to financial issues.

Atmospheric science is the study of short-term weather and long-term climate, involving both applied activities such as weather forecasting and analysis and fundamental research. It uses advanced methods in statistics and numerical modeling.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should consult the School of Education section of this catalog.

For the Mathematics, the Actuarial Science, and the Applied Math & Computer Science programs, please visit the department web page at https://uwm.edu/math and follow the links to the undergraduate program for more information. For the Atmospheric Science program, please visit the program web page at https://uwm.edu/atmospheric-science/ and follow the links to the undergraduate program for more information.

There are three curricular areas in the Department of Mathematical Sciences:

- Atmospheric Science (ATM SCI)
- Mathematics (MATH)
- Mathematical Statistics (MTHSTAT)

Undergraduate Studies - We offer three minors and five undergraduate degrees:

- Bachelor of Science Degrees: Mathematics; Atmospheric Science; Applied Mathematics and Computer Science (AMCS)
- Bachelor of Arts Degrees: Mathematics; Actuarial Science
- Minors: Mathematics; Actuarial Science; Atmospheric Science

Graduate Studies in Mathematical Sciences

The Department has vibrant graduate programs leading to both the Master of Science and Doctor of Philosophy degrees in each of Mathematics and Atmospheric Science. In addition to traditional areas of Mathematics and Statistics, the Mathematics graduate offerings also include UW-Milwaukee's Actuarial Science programs. The department
also offers a newly established dual degree in mathematics with Fachhochschule Aachen (Aachen University of Applied Sciences) in Germany. Students may prepare for careers in teaching at the secondary or college level and for careers in research in the academic, industrial, government, or business communities.

See below for detailed program information and requirements.

- Actuarial Science, BA (p. 1071)
- Actuarial Science, Minor (p. 1075)
- Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematical Sciences) (p. 1076)
- Atmospheric Science, BS (p. 1078)
- Atmospheric Science, Minor (p. 1082)
- Mathematics, BA (p. 1084)
- Mathematics, BS (p. 1089)
- Mathematics, Minor (p. 1094)
- Mathematics, MS (p. 1094)
- Mathematics, MS: Actuarial Science (p. 1096)
- Mathematics, MS: Foundations of Advanced Studies (p. 1097)
- Mathematics, MS: Industrial Mathematics (p. 1098)
- Mathematics, MS: Statistics (p. 1100)
- Mathematics, PhD (p. 1101)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Fredric D. Ancel</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>James E. Arnold Jr.</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Jay H. Beder</td>
<td>Professor</td>
<td>PhD</td>
<td>George Washington University</td>
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<tr>
<td>Allen D. Bell</td>
<td>Associate Professor</td>
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<tr>
<td>Rebecca Bourn</td>
<td>Associate Faculty Associate</td>
<td>PhD</td>
<td>University of Virginia</td>
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<tr>
<td>Suzanne L. Boyd</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Vytaras Brazauskas</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Texas at Dallas</td>
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<tr>
<td>A. Clark Evans</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Florida State University</td>
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<tr>
<td>Dashan Fan</td>
<td>Professor</td>
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<tr>
<td>Jonah Gaster</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Illinois at Chicago</td>
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<tr>
<td>Daniel Gervini</td>
<td>Professor</td>
<td>PhD</td>
<td>Universidad de Buenos Aires</td>
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<tr>
<td>Jugal K. Ghorai</td>
<td>Professor</td>
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<tr>
<td>Craig R. Guilbault</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Tennessee</td>
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<tr>
<td>Robert L. Hall</td>
<td>Associate Professor</td>
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<tr>
<td>Brendan Burns Healy</td>
<td>Visiting Assistant Professor</td>
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<tr>
<td>Peter Hinow</td>
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<tr>
<td>Yang Ho</td>
<td>Clinical Professor</td>
<td>PhD</td>
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<tr>
<td>Ingrid Holzner</td>
<td>Senior Lecturer</td>
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<td>G. Christopher Hruska</td>
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<tr>
<td>Vincent Larson</td>
<td>Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Istvan G. Lauko</td>
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<td>Texas Tech University</td>
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<tr>
<td>Cheng-Ming Lee</td>
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<tr>
<td>Thomas O'Bryan</td>
<td>Associate Professor</td>
<td>PhD</td>
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</tbody>
</table>
Actuarial Science, BA

Actuarial science is the quantitative analysis of risk. In addition to mathematics and statistics courses, students in actuarial science take classes in finance, economics and computer programming.

At many universities, actuarial sciences is housed in the business department. We believe that the most successful actuaries have an extensive foundation in mathematics and in the broader liberal arts, and therefore our program is housed in our Department of Mathematical Sciences.

While you will take several business classes, you will also be heavily exposed to the broader context in which risk exists in our lives. Through economics courses and other courses in the social sciences and humanities, you will see how actuarial science is not practiced in a vacuum but has real-life implications and impact on businesses, individuals, and communities as a whole.

Students interested in actuarial science should make every effort to prepare themselves in high school by taking four years of challenging math classes. Ideally, students will enter college ready to start in the first semester of calculus.

As students progress in our program, they begin to take the professional exams required of actuaries, making themselves more attractive job candidates. Our location in Milwaukee, the largest city in Wisconsin and home to many large and small companies, also gives our students easier access to internships and part-time jobs compared to smaller cities. If you are looking for more advanced training beyond the bachelor’s level, explore our Master’s of Science in Mathematical Sciences (http://uwm.edu/math/graduate/programs/ms-program/). In this program, you can obtain graduate-level training in actuarial science.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<th>Code</th>
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<td></td>
<td>Oral and Written Communication</td>
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<td><strong>Part A</strong></td>
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<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<td></td>
<td><strong>Part B</strong></td>
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</table>
Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

**Part A**
Achieve a grade of C or better in one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
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<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>1</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

Or equivalent course

**Part B**
Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**
Select 3 credits

**Humanities**
Select 6 credits

**Social Sciences**
Select 6 credits

**Natural Sciences**
Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**
Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language

**UWM Cultural Diversity Requirement**
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Note: Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
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</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
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</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
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</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
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<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
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<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
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</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
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<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
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</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
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<td>MATH 116</td>
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</tbody>
</table>

   or equivalent course

1. Complete one of the following:

<table>
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<tr>
<th>Code</th>
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<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.
** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Actuarial Science Major Requirements
Preparatory Curriculum
Students must complete a Calculus Sequence: MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in actuarial science must have an average GPA of at least 2.500 in these courses. Additional preparatory curricula are required, as listed below.

Capstone Experience
Students must complete a Capstone Experience. The aim of the capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. For Actuarial Science majors, the capstone is ACTSCI 599. Students must obtain consent of the instructor to enroll in ACTSCI 599.

Requirements
Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that
students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTSCI 590</td>
<td>Introduction to Actuarial Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Curriculum**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTSCI 391</td>
<td>Investment Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or BUS ADM 450</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 490</td>
<td>Introduction to Actuarial Practice</td>
<td>1</td>
</tr>
<tr>
<td>ACTSCI 591</td>
<td>Actuarial Workshop II</td>
<td>1</td>
</tr>
<tr>
<td>ACTSCI 491</td>
<td>Actuarial Workshop II</td>
<td>1</td>
</tr>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 492</td>
<td>Actuarial Models I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ACTSCI 594</td>
<td>and Actuarial Models II</td>
<td></td>
</tr>
<tr>
<td>ACTSCI 596</td>
<td>Actuarial Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ACTSCI 597</td>
<td>and Actuarial Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

**Select One of the Following Two Pairs:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTSCI 593</td>
<td>Actuarial Models I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ACTSCI 594</td>
<td>and Actuarial Models II</td>
<td></td>
</tr>
<tr>
<td>ACTSCI 596</td>
<td>Actuarial Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ACTSCI 597</td>
<td>and Actuarial Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

**Select two of the following four courses:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 566</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits: 58**

**Recommended Electives**

To achieve the best preparation for an actuarial career, students actively should pursue internship opportunities with insurance companies, consulting firms, and other organizations that require actuarial science knowledge. Once such an opportunity is secured, the student should enroll in ACTSCI 590. Students also should take courses in business communication (COMMUN 105, ENGLISH 205), computer science (COMPSCI 351, COMPSCI 557), and expand their knowledge in economics (ECON 325, ECON 450).

**Professional Development**

For future advancement in the field of actuarial science, “Validation by Educational Experience” (VEE) credits are required. VEE credits may be earned from the Society of Actuaries (SOA) and Casualty Actuarial Society (CAS) with a grade of B- or better in the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics I (VEE-Mathematical Statistics)</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics II (VEE-Mathematical Statistics)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics (VEE-Economics)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics (VEE-Economics)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting (VEE-Accounting and Finance)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance (VEE-Accounting and Finance)</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses taken at other universities may be used to meet the VEE requirement of the SOA/CAS.

Students considering a major in Actuarial Science need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and since required courses are not offered every semester or year, students should check regularly with their advisors to plan their courses of study in order to finish in a coherent and timely fashion.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.
Honors in the Major
Students in Actuarial Science who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Actuarial Science major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Actuarial Science major; and
4. The passing of at least three professional actuarial exams.

Students who believe they may qualify for honors in Actuarial Science should apply to the Mathematical Sciences Department during their last semester of study.

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Math Sci office, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/majors/actuarial-science/

Actuarial Science, Minor
Actuarial science is the quantitative analysis of risk. In addition to mathematics and statistics courses, students in actuarial science take classes in finance, economics and computer programming.

At many universities, actuarial sciences is housed in the business department. We believe that the most successful actuaries have an extensive foundation in mathematics and in the broader liberal arts, and therefore our program is housed in our Department of Mathematical Sciences.

While you will take several business classes, you will also be heavily exposed to the broader context in which risk exists in our lives. Through economics courses and other courses in the social sciences and humanities, you will see how actuarial science is not practiced in a vacuum but has real-life implications and impact on businesses, individuals, and communities as a whole.

Students interested in actuarial science should make every effort to prepare themselves in high school by taking four years of challenging math classes. Ideally, students will enter college ready to start in the first semester of calculus.

As students progress in our program, they begin to take the professional exams required of actuaries, making themselves more attractive job candidates. Our location in Milwaukee, the largest city in Wisconsin and home to many large and small companies, also gives our students easier access to internships and part-time jobs compared to smaller cities. If you are looking for more advanced training beyond the bachelor's level, explore our Master's of Science in Mathematical Sciences (http://uwm.edu/math/graduate/programs/ms-program/). In this program, you can obtain graduate-level training in actuarial science.

Requirements
Students must complete at least 9 upper-division (numbered 300 and above) credits for the minor in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTSCI 290</td>
<td>Introduction to Actuarial Science</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 391</td>
<td>Investment Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 20

1 Admission to the minor requires a minimum GPA of 2.500 in these courses or an equivalent course sequence. Students who have completed these courses with the required GPA may complete a formal declaration of minor at the department office. These courses do not count in the minor GPA.

2 BUS ADM 450 should be completed with a grade of B- or better.

Contact Information
Current Students contact the Math Sci office, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/majors/actuarial-science/
The Applied Mathematics and Computer Science (AMCS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both applied math and computer science so that students get the benefit of both majors without having to double major.

The job outlook for individuals with math majors is extremely favorable, as is the job outlook for computer science majors. A student with combined knowledge in both areas is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences on their way to a degree. Why? Because math and computer science are not applied in a world without humans. Regardless of the type of industry, the applications being worked on have impact and consequences for human beings. A broad world view of cultures, history, and society only leads to better decision-making in scientific careers, and strong communication skills only make our graduates even more attractive.

Requirements

Applied Math and Computer Science Major Requirements

Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

Admission

As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in College of Engineering and Applied Science or College of Letters and Science, who assists in planning a program. Admission to the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level.

Degree Requirements

For the BS (AMCS) degree, 120 credits are required, of which 75 must be taken from the College of Letters and Science. Students must satisfy the general education requirements (GER) (p. 29) of the University. Students must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures ¹</td>
<td>3</td>
</tr>
<tr>
<td>Select the following (or an equivalent sequence):</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 240</td>
<td>Matrices and Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in COMPSCI at the 300 level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits from MATH and/or MTHSTAT and/or ACTSCI at</td>
<td></td>
<td></td>
</tr>
<tr>
<td>the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one of the following pairs:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 305</td>
<td>&amp; MATH 405, Introduction to Mathematical and Computational Modeling and Mathematical Models and Applications</td>
<td>6</td>
</tr>
<tr>
<td>MATH 313</td>
<td>&amp; MATH 315, Linear Programming and Optimization</td>
<td></td>
</tr>
<tr>
<td>MATH 320</td>
<td>&amp; MATH 322, Introduction to Differential Equations and Introduction to Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 413</td>
<td>&amp; MATH 415, Introduction to Numerical Analysis and Introduction to Scientific Computing</td>
<td></td>
</tr>
<tr>
<td>MATH 413</td>
<td>&amp; MATH 417, Introduction to Numerical Analysis and Computational Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 415</td>
<td>&amp; MATH 417, Introduction to Scientific Computing and Computational Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 431</td>
<td>&amp; MATH 531, Modern Algebra with Applications and Modern Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 521</td>
<td>&amp; MATH 522, Advanced Calculus I and Advanced Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 531</td>
<td>&amp; MATH 535, Modern Algebra and Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 601</td>
<td>&amp; MATH 602, Advanced Engineering Mathematics I and Advanced Engineering Mathematics II</td>
<td></td>
</tr>
<tr>
<td>MATH 621</td>
<td>&amp; MATH 622, Introduction to Analysis I and Introduction to Analysis II</td>
<td></td>
</tr>
</tbody>
</table>
MATH 631 & MATH 632
Modern Algebra I and Modern Algebra II

MTHSTAT 361 & MTHSTAT 362
Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II

Select 21 additional credits from CompSci, Math, MthStat, and ActSci courses at the 300 level or above, beyond the "Core" as well as the above "Advanced" Requirements

Total Credits 79

1 COMPSCI 317 is waived for students who earn credit for MTHSTAT 361, which counts towards the math electives for the program. Students who have COMPSCI 317 waived in this case do not need to take any additional credits.

Potential Course of Study

Year 1

Fall
COMPSCI 250 Introductory Computer Programming 3
ENGLISH 101 Introduction to College Writing 3
MATH 115 Precalculus 4
1st semester foreign language 3-5

Credits 13-15

Spring
COMPSCI 251 Intermediate Computer Programming 3
ENGLISH 102 College Writing and Research 3
MATH 231 Calculus and Analytic Geometry I 4
Arts 3
2nd semester foreign language 3-5

Credits 16-18

Year 2

Fall
COMPSCI 315 Introduction to Computer Organization and Assembly Language Programming 3
COMPSCI 351 Data Structures and Algorithms 3
MATH 232 Calculus and Analytic Geometry II 4
MATH 341 Seminar: Introduction to the Language and Practice of Mathematics 3
Humanities + Cultural Diversity 3

Credits 16

Spring
COMPSCI 317 Discrete Information Structures 3
MATH 233 Calculus and Analytic Geometry III 4
MATH 234 or MATH 240 Linear Algebra and Differential Equations or Matrices and Applications 3-4
Natural Science with lab 4-5

Credits 14-16

Year 3

Fall
COMPSCI 535 Algorithm Design and Analysis 3
CompSci advanced elective 3
Math or Comp Sci advanced elective 3
Math sequence course 3
Natural Science 2-4

Credits 15-16

Spring
CompSci advanced elective 3

Year 4

Fall
CompSci advanced elective 3
Math advanced elective 3
Math or CompSci advanced elective 3
Humanities + OWCB 3

Credits 12

Spring
CompSci or Math advanced electives 1 12
Social Science 3

Credits 15

Total Credits 116-123

Honors in the Degree

Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: MATH 599, MATH 699, COMPSCI 595, or COMPSCI 699;
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHSTAT) or Computer Science in a course numbered 600 or higher that is different from MATH 699 and COMPSCI 699.

Students who believe they may qualify for honors in Applied Mathematics & Computer Science should apply to the Department of Mathematical Sciences during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
Atmospheric Science, BS

Atmospheric Science is the study of short-term weather and long-term climate, involving activities such as weather forecasting, climate projections, air quality modeling, data analysis, and basic and applied research.

Some universities may call this major "Meteorology." We call it Atmospheric Science because our program is much broader than just weather forecasting. Students in our program will obtain a solid foundation in the mathematical modeling that forms the basis of analysis not just of tomorrow's expected weather but also long-term climate change, storm impact and predictability, pollution patterns and impact, and the consequences of weather to people and organizations.

While TV weather forecasters may be the most visible job outcome for an Atmospheric Science major, the fact is that there are a very limited number of these jobs nationally. Most majors work in other areas of the field such as research, government agencies such as NASA and NOAA, consulting firms, and schools. As more and more companies realize the impact weather can have on business operations, more job opportunities are opening in the private sector, and this is the sector with the greatest projected job growth.

Atmospheric Science students at UWM have unique opportunities not found at any other university in the state or region. Our Innovative Weather program (http://innovativeweather.com/) is hired by numerous businesses such as the Milwaukee Brewers and We Energies that need to make decisions based on the weather, and students work to provide these clients with customized forecasts and risk analyses. Our program also offers students research internships in areas such as cloud modeling, weather analysis, and data science. Our program is also home to the first-of-its-kind faculty-led Mexico "Air Pollution and Ancient Cultures" Study Abroad program and an active student-led club. Finally, the Atmospheric Science major provides distinct tracks that help prepare students for careers in weather forecasting, natural hazard risk assessment, and data analytics, or for graduate study.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UWM Foreign Language Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
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<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing requirement.

II. Mathematics and Formal Reasoning

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelor of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>

III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete in one of the following ways:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Complete 3 credits in a course with Cultural Diversity (CD) designation.**

* Students should check their course selections carefully with the list of approved L&S Breadth Courses ([http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/](http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/)). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 and above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here ([http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/](http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/)).

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Atmospheric Science (BS) Major Requirements
Preparatory Curriculum
Students in this major must complete MATH 231, MATH 232, and MATH 233 (or equivalents). MATH 221 and MATH 222 are equivalent to the sequence of MATH 231, MATH 232, and MATH 233. All majors must take either MATH 234 or MATH 240. Atmospheric Science majors must complete additional preparatory curricula, as indicated below.

Capstone Experience
Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department’s capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. For Atmospheric Science majors, the capstone is ATM SCI 599. Students must obtain consent of a professor to enroll in ATM SCI 599.

Requirements
Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The following courses are required for the atmospheric science major:

### Code | Title | Credits
--- | --- | ---
CHEM 102 | General Chemistry | 5
PHYS 209 & PHYSICS 214 | Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment) | 5
PHYS 210 & PHYSICS 215 | Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment) | 5
COMPSCI 151 | Introduction to Scientific Programming in Fortran | 3

### Core
- ATM SCI 240 | Introduction to Meteorology | 3
- ATM SCI 330 | Air-Pollution Meteorology | 3
- ATM SCI 350 | Atmospheric Thermodynamics | 3
- ATM SCI 351 | Dynamic Meteorology I | 3
- ATM SCI 352 | Dynamic Meteorology II | 3
- ATM SCI 360 | Synoptic Meteorology I | 4
- ATM SCI 361 | Synoptic Meteorology II | 4
- ATM SCI 464 | Physical Meteorology: Cloud Physics | 3
- ATM SCI 511 | Seminar in Atmospheric Radiation and Remote Sensing | 3
- ATM SCI 599 | Capstone Experience | 1
- MATH 320 | Introduction to Differential Equations | 3

### Electives
Select at least 9 credits of the following:
- ATM SCI 460 | Mesoscale Circulations | 3
- ATM SCI 470 | Tropical Meteorology | 3
- ATM SCI 480 | The General Circulation and Climate Dynamics | 3
- ATM SCI 497 | Study Abroad: | 3
- ATM SCI 500 | Statistical Methods in Atmospheric Sciences | 3
- ATM SCI 505 | Micrometeorology | 3
- ATM SCI 600 | Data Analytics | 3
- ATM SCI 690 | Seminar in Atmospheric Sciences: | 3
- MATH 313 | Linear Programming and Optimization | 3
- MATH 315 | Mathematical Programming and Optimization | 3
- MATH 321 | Vector Analysis | 3
- MATH 322 | Introduction to Partial Differential Equations | 3
- MATH 405 | Mathematical Models and Applications | 3
- MATH 413 | Introduction to Numerical Analysis | 3
- MATH 415 | Introduction to Scientific Computing | 3
- MATH 417 | Computational Linear Algebra | 3
- MATH 521 | Advanced Calculus I | 3
- MATH 522 | Advanced Calculus II | 3
- MATH 535 | Linear Algebra | 3
- MATH 571 | Introduction to Probability Models | 3
- MATH 581 | Introduction to the Theory of Chaotic Dynamical Systems | 3
- MATH 601 | Advanced Engineering Mathematics I | 3
In addition to the preparatory curriculum required of all mathematical sciences majors, these courses are required, but do not count in calculating the major GPA.

Atmospheric Science Advising

Students considering a major in Atmospheric Science need to contact the Atmospheric Science Program Chair (https://uwm.edu/math/undergraduate/resources/advising/) to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly (at least once per semester) with their faculty advisor to plan their courses of study in a coherent and timely fashion.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in Atmospheric Sciences who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Atmospheric Sciences major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Atmospheric Sciences major; and
4. Successful completion of at least two semesters of research and/or internship experiences. The research and internship experiences can include one or more of the Capstone Experience (ATM SCI 599), a directed independent study for credit (ATM SCI 699), an internship for credit (ATM SCI 695), the Atmospheric Sciences Study Abroad course (ATM SCI 297/ATM SCI 497), undergraduate research for compensation, and participation in the Innovative Weather program at the staff level. The staff level of Innovative Weather is the third level of participation, coming after a pre-internship (several weeks in one semester) and an internship (one semester at 5-10 hours per week).

Staff positions are paid, and staff members typically work around 10 hours per week during the fall or spring semesters, more in the summer session.

Students who believe they may qualify for honors in Atmospheric Sciences should apply to the Department of Mathematical Sciences during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Program Coordinator, atmo-chair@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
Atmospheric Science, Minor

Atmospheric Science is the study of short-term weather and long-term climate, involving activities such as weather forecasting, climate projections, air quality modeling, data analysis, and basic and applied research.

Some universities may call this field "Meteorology." We call it Atmospheric Science because our program is much broader than just weather forecasting.

Atmospheric Science students at UWM have unique opportunities not found at any other university in the state or region. Our Innovative Weather program (http://innovativeweather.com/) is hired by numerous businesses such as the Milwaukee Brewers and We Energies that need to make decisions based on the weather, and students work to provide these clients with customized forecasts and risk analyses. Our program also offers students research internships in areas such as cloud modeling, weather analysis, and data science. Our program is also home to the first-of-its-kind faculty-led Mexico "Air Pollution and Ancient Cultures" Study Abroad program and an active student-led club. Finally, the Atmospheric Science major provides distinct tracks that help prepare students for careers in weather forecasting, natural hazard risk assessment, and data analytics, or for graduate study.

Requirements

The College of Letters and Science requires that students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM, and students must attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The minor consists of a minimum of 18 credits in atmospheric science, as follows.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 360</td>
<td>Synoptic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>Select 12 credits at the 300 level or above</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact the Program Coordinator, atmo-chair@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/atmospheric-science/undergraduate/

Atmospheric Science, MS

The UWM Atmospheric Science Program, housed within the Department of Mathematical Sciences, is a group of scholars who engage in a wide array of distinguished, societally-relevant research currently supported by over $3 million in external funding. Their specializations include climate variability, cloud physics and numerical modeling, atmospheric dynamics, mesoscale and synoptic meteorology, air pollution meteorology, and data analytics. The Atmospheric Science graduate programs are focused on student-led research under the direction of one or more faculty advisors.

Over its twenty-plus years of existence, the program has a history of innovation in both education and research, with the Innovative Weather program and first-of-its-kind "Air Pollution and Ancient Cultures" faculty-led study abroad course being two representative examples of innovative educational opportunities. Students graduating from the program have a long history of acquiring gainful employment with top-tier public and private sector institutions in Wisconsin and beyond.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

- A general background in both physics and mathematics, including calculus and ordinary differential equations. Students who lack this background may be admitted if the deficiencies amount to no more than two courses. Deficiencies must be made up within the first three enrolled semesters of graduate study.

Optional

Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).

Credits and Courses

Students enrolled in the MS in Atmospheric Science degree program must complete a total of thirty (30) credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 350</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 351</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
</tbody>
</table>

Students receiving financial support from the Department of Mathematical Sciences must enroll in a minimum of fifteen (15) credits offered by the department during each academic year.

Courses in Atmospheric Science that may be taken for graduate credit are listed below.
The UWM Atmospheric Science Program, housed within the Department of Mathematical Sciences, is a group of scholars who engage in a wide array of distinguished, societally-relevant research currently supported by over $3 million in external funding. Their specializations include climate variability, cloud physics and numerical modeling, atmospheric dynamics, mesoscale and synoptic meteorology, air pollution meteorology, and data analytics. The Atmospheric Science graduate programs are focused on student-led research under the direction of one or more faculty advisors.

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**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Students seeking admission to the PhD in Atmospheric Science degree program must meet all UWM Graduate School requirements. An earned Master of Science degree is not a prerequisite for admission; however, it is expected that most applicants will have an earned master of science degree in atmospheric science or a closely-related discipline.

Entering students without an earned master of science degree should have a general background in both physics and mathematics, including calculus and ordinary differential equations. Students who lack this background may be admitted if the deficiencies amount to no more than two courses, and deficiencies must be made up within three enrolled semesters of graduate study.

**Optional**

Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).

**Credits and Courses**

Students enrolled in the PhD in Atmospheric Science program must complete a total of fifty-four (54) graduate credits beyond the bachelor’s degree with at least twenty-seven (27) earned in residence at UWM. Students receiving financial support from the Department of Mathematical Sciences must enroll in a minimum of fifteen (15) credits offered by the department during each academic year. As part of their 54 credits, students admitted directly to the PhD program without an earned Master of Science in Atmospheric Science must complete the following twenty-four (24) credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 352</td>
<td>Dynamic Meteorology II</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 360</td>
<td>Synoptic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 361</td>
<td>Synoptic Meteorology II</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 460</td>
<td>Mesoscale Circulations</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 464</td>
<td>Physical Meteorology: Cloud Physics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 470</td>
<td>Tropical Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 480</td>
<td>The General Circulation and Climate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 497</td>
<td>Study Abroad: (subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 505</td>
<td>Micrometeorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 511</td>
<td>Seminar in Atmospheric Radiation and Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 600</td>
<td>Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 690</td>
<td>Seminar in Atmospheric Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 700</td>
<td>Statistical Methods in Atmospheric Sciences II: Signal Detection</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 705</td>
<td>Air Pollution Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 711</td>
<td>Cloud Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 730</td>
<td>Numerical Weather Prediction</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 750</td>
<td>Nonlinear Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 761</td>
<td>Advanced Synoptic/Mesoscale Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 950</td>
<td>Seminar on Topics in Atmospheric Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 990</td>
<td>Master’s Thesis</td>
<td>1-8</td>
</tr>
<tr>
<td>ATM SCI 997</td>
<td>Doctoral Externship</td>
<td>1-12</td>
</tr>
<tr>
<td>ATM SCI 998</td>
<td>Doctoral Dissertation</td>
<td>1-12</td>
</tr>
<tr>
<td>ATM SCI 999</td>
<td>Advanced Independent Reading</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

**Thesis**

Prior to graduation, students, under the direction of a major professor and supervision of a three-member evaluation committee comprised of Atmospheric Science graduate faculty, must complete and orally defend an acceptable thesis. An acceptable thesis is defined as one representing the student’s studies as specified in Graduate School regulations.

**Time Limit**

Entering full-time students without deficiencies are expected to complete all degree requirements within two years of first enrollment. All degree requirements must be completed within five years of first enrollment.

**Contact Information**

Current Students contact the Program Coordinator, atmo-chair@uwm.edu

http://uwm.edu/atmospheric-science/graduate/

**Atmospheric Science, PhD**

The UWM Atmospheric Science Program, housed within the Department of Mathematical Sciences, is a group of scholars who engage in a wide
Students admitted to the PhD program with an earned Master of Science in Atmospheric Science from UWM or elsewhere have fulfilled these requirements. In consultation with their major professor, students are expected to identify additional graduate courses that benefit their research or professional development. It is expected that most students will elect to supplement their formal Atmospheric Science coursework with formal coursework from other curricular areas. With the approval of the student's major professor, any graduate-level course at UWM may fulfill degree requirements. Assuming an earned MS degree, a typical PhD student's curriculum will consist of twelve credits of formal graduate coursework, at least half of which will be completed at the 700-level or above; three credits of ATM SCI 999; and nine to twelve credits of ATM SCI 998.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 500 &amp; ATM SCI 700</td>
<td>Statistical Methods in Atmospheric Sciences and Statistical Methods in Atmospheric Sciences II: Signal Detection</td>
<td>24</td>
</tr>
</tbody>
</table>

Students admitted to the PhD program with an earned Master of Science in Atmospheric Science from UWM or elsewhere have fulfilled these requirements. In consultation with their major professor, students are expected to identify additional graduate courses that benefit their research or professional development. It is expected that most students will elect to supplement their formal Atmospheric Science coursework with formal coursework from other curricular areas. With the approval of the student's major professor, any graduate-level course at UWM may fulfill degree requirements. Assuming an earned MS degree, a typical PhD student's curriculum will consist of twelve credits of formal graduate coursework, at least half of which will be completed at the 700-level or above; three credits of ATM SCI 999; and nine to twelve credits of ATM SCI 998.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master's degree/pre-doctoral coursework</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Formal graduate coursework, at least half of which will be completed at the 700-level or above</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Additional approved courses, including 9-12 credits of ATM SCI 998</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

Courses in Atmospheric Science that may be taken for graduate credit are listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
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<td>ATM SCI 350</td>
<td>Atmospheric Thermodynamics</td>
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<td>ATM SCI 351</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
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<td>ATM SCI 360</td>
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<td>Tropical Meteorology</td>
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<td>ATM SCI 480</td>
<td>The General Circulation and Climate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 497</td>
<td>Study Abroad: (subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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<td>Seminar in Atmospheric Radiation and Remote Sensing</td>
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<tr>
<td>ATM SCI 600</td>
<td>Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 690</td>
<td>Seminar in Atmospheric Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 700</td>
<td>Statistical Methods in Atmospheric Sciences II: Signal Detection</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 705</td>
<td>Air Pollution Modeling</td>
<td>3</td>
</tr>
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<td>ATM SCI 711</td>
<td>Cloud Dynamics</td>
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<td>ATM SCI 730</td>
<td>Numerical Weather Prediction</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 750</td>
<td>Nonlinear Time Series Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional Requirements

#### Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

#### Preliminary Examination
To qualify for dissention status, students must successfully pass a preliminary examination in Atmospheric Science, focusing on three sub-disciplines of the field, and complete a dissertation proposal hearing. With approval of their major professor, students may elect to substitute an area of mathematics for one of the three Atmospheric Science sub-disciplines on the preliminary examination. The preliminary examination must be attempted prior to the start of the third year of study, and students who fail the examination are permitted one retake. The preliminary examination and dissertation proposal hearing must both be completed no later than the end of the fourth year of study.

#### Dissertation
To receive the degree, students, under the direction of a major professor and supervision of a five-member evaluation committee, must complete and successfully defend a dissertation representing an original contribution to the field of sufficient caliber for publication in a peer-reviewed journal. The evaluation committee is to be comprised of four Atmospheric Science graduate faculty members and one member external to the program.

#### Time Limit
Entering full-time students with an earned Master of Science degree are expected to complete all degree requirements within three to four years of first enrollment. Entering full-time students without an earned Master of Science degree are expected to complete all degree requirements within five to six years of first enrollment. All degree requirements must be completed within ten years of first enrollment, consistent with UWM's campus-wide policy.

#### Contact Information
Current Students contact the Program Coordinator, atmo-chair@uwm.edu

http://uwm.edu/atmospheric-science/graduate/

### Mathematics, BA
Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty,
discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

At UWM, the Math major has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should examine the School of Education (p. 311) programs.

Some students with an interest in computer science choose to enroll in the Applied Math and Computer Science (p. 1076) program. This program is ideal for the student who might have considered double majoring in both math and computer science; it combines applied math courses with computer science classes for you into one program.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

¹ Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.
College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural
Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Mathematics Major Requirements
Preparatory Curriculum
Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in mathematics must have an average GPA of at least 2.500 in these courses. All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 202, COMPSCI 240, COMPSCI 250, or COMPSCI 251). The department also recommends strongly one year of calculus-based physics.

Capstone Experience
Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department’s capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Mathematics majors may choose either MATH 599 or MATH 575. Students must obtain consent of a professor to enroll in MATH 599.

Requirements
The following courses are required for the Mathematics major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 24 credits in upper-division math courses (those numbered 300 and above, and in curricular areas MATH or MTHSTAT or ACTSCI). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding MATH 591, MATH 599, MATH 699, ACTSCI 490, or ACTSCI 599.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits 27

Additional Requirements
- Note that MATH 381 and MTHSTAT 465 and MTHSTAT 467 are not open for credit in the Mathematics major.
- Actuarial Science majors wishing to complete Math as a second major must take 9 cr of upper div Math/MthStat courses beyond the major requirements of Actuarial Science.
- Students completing an AMCS degree who wish to add Mathematics as a second major must take 9 cr of additional upper division Math/MthStat/ActSci courses beyond those used to fulfill the AMCS degree Math/MthStat/ActSci requirements.
- Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM.
- The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work.

Recommendations
Mathematics courses fall naturally into the following groups (see below for individual courses):

1. Applied Mathematics
2. Computational Mathematics
3. Probability and Statistics
4. Pure Mathematics

For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics,
For students planning to pursue graduate studies in statistics or economics, we recommend MATH 521, MATH 522, and as many as possible of MTHSTAT 361, MTHSTAT 362, and MTHSTAT 562-MTHSTAT 568.

For students seeking employment in statistics after the bachelor's degree, we recommend MTHSTAT 361, MTHSTAT 362, and as many as possible of MTHSTAT 562-MTHSTAT 568, as well as courses in computer programming (COMPSCI 250, COMPSCI 251, etc.).

For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MTHSTAT 362), the Applied Mathematics group (including both modeling and differential equations), the Computational Mathematics group, Linear Algebra (MATH 535), and courses in computer programming (COMPSCI 240, COMPSCI 250, COMPSCI 251, etc.).

For students intending to become high school mathematics teachers, we recommend courses in algebra (MATH 431, MATH 531), geometry (MATH 451, MATH 453), linear algebra (MATH 535), numerical methods (MATH 413), advanced calculus (MATH 521, MATH 522), the math education capstone (MATH 575), and probability and statistics (MTHSTAT 361 & MTHSTAT 362).

For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.

### Mathematics Groups

#### Applied Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 305</td>
<td>Introduction to Mathematical and Computational Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Stochastic Models in Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 431</td>
<td>Modern Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to the Theory of Chaotic Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 602</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Computational Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 615</td>
<td>Numerical Solution of Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 617</td>
<td>Optimization</td>
<td>3</td>
</tr>
</tbody>
</table>

### Probability and Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 562</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 566</td>
<td>Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Pure Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 521</td>
<td>Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 522</td>
<td>Advanced Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 531</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 551</td>
<td>Elementary Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 622</td>
<td>Introduction to Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 632</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 423</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Axiomatic Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 453</td>
<td>Transformations in Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 511</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>MATH 537</td>
<td>Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 553</td>
<td>Differential Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

### Mathematics Advising

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment.
honors calculation, the GPA is not rounded and is truncated at the third
decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or
above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or
above.

Contact Information
Current Students contact the Department directly, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/

Mathematics, BS
Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start-ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

At UWM, the Math major has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Honors in the Major
Students in Mathematics who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Mathematics major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
   - Successful completion of at least two semesters of research and/ or internship experiences. These may include one or more of the Capstone Experience (MATH 599), a directed independent study for credit (MATH 699), an internship for credit (MATH 489), and undergraduate research for compensation.
   - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math or MthStat) courses numbered 600 or above.
   - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for
Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should examine the School of Education (p. 311) programs.

Some students with an interest in computer science choose to enroll in the Applied Math and Computer Science (p. 1076) program. This program is ideal for the student who might have considered double majoring in both math and computer science; it combines applied math courses with computer science classes for you into one program.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.
Individual departments or programs may require higher GPAs for graduation.

**Mathematics Major Requirements**

**Preparatory Curriculum**

Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in mathematics must have an average GPA of at least 2.500 in these courses. All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 202, COMPSCI 240, COMPSCI 250, or COMPSCI 251). The department also recommends strongly one year of calculus-based physics.

**Capstone Experience**

Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department's capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Mathematics majors may choose either MATH 599 or MATH 575. Students must obtain consent of a professor to enroll in MATH 599.

**Requirements**

The following courses are required for the Mathematics major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 24 credits in upper-division math courses (those numbered 300 and above, and in curricular areas MATH, MTHSTAT, or ACTSCI). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding MATH 591, MATH 599, MATH 699, ACTSCI 490, or ACTSCI 599.</td>
<td>24</td>
</tr>
</tbody>
</table>

**Additional Requirements**

- Note that MATH 381 and MTHSTAT 465 and MTHSTAT 467 are not open for credit in the Mathematics major.
- Actuarial Science majors wishing to complete Math as a second major must take 9 cr of upper div Math/MthStat courses beyond the major requirements of Actuarial Science.
- Students completing an AMCS degree who wish to add Mathematics as a second major must take 9 cr of additional upper division Math/MthStat/ActSci courses beyond those used to fulfill the AMCS degree Math/MthStat/ActSci requirements.
- Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM.
- The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work.

**Recommendations**

Mathematics courses fall naturally into the following groups (see below for individual courses):

1. Applied Mathematics
2. Computational Mathematics
3. Probability and Statistics
4. Pure Mathematics

For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics, Group 1. Many PhD programs require reading knowledge of French, German, or Russian.

For students planning to pursue graduate studies in statistics or economics, we recommend MATH 521, MATH 522, and as many as possible of MTHSTAT 361, MTHSTAT 362, and MTHSTAT 562-MTHSTAT 568.

For students seeking employment in statistics after the bachelor's degree, we recommend MTHSTAT 361, MTHSTAT 362, and as many as possible of MTHSTAT 562-MTHSTAT 568, as well as courses in computer programming (COMPSCI 250, COMPSCI 251, etc.).

For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MTHSTAT 362), the Applied Mathematics group (including both modeling and differential equations), the Computational Mathematics group, Linear Algebra (MATH 535), and courses in computer programming (COMPSCI 240, COMPSCI 250, COMPSCI 251, etc.).

For students intending to become high school mathematics teachers, we recommend courses in algebra (MATH 431, MATH 531), geometry (MATH 451, MATH 453), linear algebra (MATH 535), numerical methods (MATH 413), advanced calculus (MATH 521, MATH 522), the math education capstone (MATH 575), and probability and statistics (MTHSTAT 361 & MTHSTAT 362).

For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.

**Mathematics Groups**

**Applied Mathematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 305</td>
<td>Introduction to Mathematical and Computational Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Stochastic Models in Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 431</td>
<td>Modern Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to the Theory of Chaotic Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 602</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
</tbody>
</table>
Mathematics Advising

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uw milwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in Mathematics who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
   - Successful completion of at least two semesters of research and/or internship experiences. These may include one or more of the Capstone Experience (MATH 599 or ACTSCI 599), a directed independent study for credit (MATH 699), an internship for credit (MATH 489 or ACTSCI 590), and undergraduate research for compensation.
   - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math, MthStat or ActSci) courses numbered 600 or above.
   - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.

### Computations Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 615</td>
<td>Numerical Solution of Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 617</td>
<td>Optimization</td>
<td>3</td>
</tr>
</tbody>
</table>

### Probability and Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 562</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 566</td>
<td>Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Pure Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 521</td>
<td>Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 522</td>
<td>Advanced Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 531</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 551</td>
<td>Elementary Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 622</td>
<td>Introduction to Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 632</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 423</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Axiomatic Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 453</td>
<td>Transformations in Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 511</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>MATH 537</td>
<td>Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 553</td>
<td>Differential Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

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3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
   - Successful completion of at least two semesters of research and/or internship experiences. These may include one or more of the Capstone Experience (MATH 599 or ACTSCI 599), a directed independent study for credit (MATH 699), an internship for credit (MATH 489 or ACTSCI 590), and undergraduate research for compensation.
   - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math, MthStat or ActSci) courses numbered 600 or above.
   - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/

Mathematics, Minor
Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start-ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Requirements
Students minoring in mathematics must complete 18 credits in mathematical sciences (curricular areas Math and MthStat and ActSci) courses numbered 200 and above, of which 9 credits must be upper-division (numbered 300 and above) courses taken in residence at UWM.

The minor in mathematics is not available to students pursuing the Actuarial Science major or the Applied Math and Computer Science degree. Students who wish to complete both a minor in mathematics and Actuarial Science must complete at least an additional 6 credits of upper division courses in Math/MthStat/ActSci courses not required by the Actuarial Science minor.

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, student must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor is available as a post-baccalaureate option for students who have graduated.

Contact Information
Current Students contact the Department directly, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/

Mathematics, MS
Mathematics MS: Standard Option (Option A).
The Requirements tab in this section of the catalog lists the requirements for the standard mathematics option for the master’s degree in mathematics.

Overview of all Mathematical Sciences Department MS programs
The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a PhD as well as the student who
wishes to begin a professional career upon completion of the master's program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master's degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master's degree option. The department also offers a master's degree in atmospheric science.

Dual Master's Degree Option
In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master's Degree Program in Mathematics. The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Completion of three semesters of undergraduate calculus.
2. At least 18 credits of acceptable undergraduate preparation beyond calculus.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Minimum degree requirement is 30 or 36 credits, depending upon which option the student chooses:

30-credit option:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 credits from Math and MthStat courses</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Minimum 12 credits numbered 700 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 9 credits of approved coursework outside the department</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

36-credit option:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 credits from Math and MthStat courses</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Maximum of 12 credits below 500 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 12 credits of approved coursework outside the department</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

Thesis
A thesis is optional. A student choosing the thesis option must enroll in MATH 790. A maximum of 3 credits of thesis may be counted toward the degree requirements. An acceptable thesis will represent an original contribution and may involve applications, a novel exposition, or computational aspects of a mathematical problem or theory. The student must pass an oral defense of the thesis.

Examination or Project
Each student who does not elect the thesis option must satisfy one of the following requirements:

1. Pass a written comprehensive examination.
2. Present a satisfactory oral and written report on a comprehensive project done under the supervision of a faculty advisor.

The project option is open only to students who complete the 36 credit graduation requirement. Students electing the project should register for 3 credits of MATH 791. Students planning to continue for a PhD should select the written comprehensive examination option.

Additional Requirements
Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering graduate student is assigned a temporary advisor by the Associate Chair for Graduate Programs.

Time Limit
Under the 30-credit option, the student must complete all degree requirements within five years of initial enrollment. Under the 36-credit option, the student must complete all degree requirements within seven years of initial enrollment.

Dual Master's Degree Option
In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master's Degree Program in Mathematics. The students enrolled in this program will be able to earn Master's
degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page: http://uwm.edu/math/graduate/.

**Mathematics, MS: Actuarial Science**

**Objective of Mathematics MS: Actuarial Science (Option D)**

The program provides a mathematically rigorous education in actuarial science, prepares students for actuarial professional exams, and develops their economics and business reasoning skills. Students obtain thorough knowledge in the fundamentals of actuarial science such as applied probability models, applied statistics, credibility, financial economics, life contingencies, loss models, and risk theory. Emphasis is placed on developing skills that are highly valued by employers and thus are essential for a successful career as actuary. This program is intended for students who will seek employment as an actuary upon completion of the degree. Those interested in entering the department’s Ph.D. program should consider a different Master’s option.

**Overview of Mathematical Sciences Department MS programs**

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master’s degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master’s degree option. The department also offers a master’s degree in atmospheric science.

**Dual Master’s Degree Option**

In addition to multiple options available for MS in mathematics, the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master’s degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Students with undergraduate degrees in mathematics, statistics, actuarial science, economics or a related area are eligible for admission. Applicants should have a strong mathematical background that includes three semesters of calculus, linear algebra, probability, and mathematical statistics. Students lacking this background may be admitted provided that the deficiencies amount to no more than two courses. Although not required, having one actuarial professional exam passed would be an asset.

**Credits and Courses**

The minimum degree requirement is 33 credits. In order to graduate, the following requirements must be completed:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTSCI 791</td>
<td>Investment Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 793</td>
<td>Actuarial Models I</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 794</td>
<td>Actuarial Models II</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 796</td>
<td>Actuarial Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 797</td>
<td>Actuarial Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 571G</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>One of the following two courses:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 891</td>
<td>Actuarial Risk Theory</td>
<td></td>
</tr>
<tr>
<td>ACTSCI 895</td>
<td>Topics in Actuarial Science</td>
<td></td>
</tr>
<tr>
<td>One of the following pairs:</td>
<td></td>
<td>6-8</td>
</tr>
<tr>
<td>MTHSTAT 761 &amp; MTHSTAT 762</td>
<td>Mathematical Statistics I and Mathematical Statistics II</td>
<td></td>
</tr>
<tr>
<td>ECON 701 &amp; ECON 702</td>
<td>Economic Theory: Microeconomics and Economic Theory: Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 703 &amp; BUSMGMT 705</td>
<td>Financial Accounting and Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 557G &amp; COMPSCI 720</td>
<td>Introduction to Database Systems and Computational Models of Decision Making</td>
<td></td>
</tr>
<tr>
<td>Two of the following courses:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>MTHSTAT 563G</td>
<td>Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 564G</td>
<td>Time Series Analysis</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 566G</td>
<td>Computational Statistics</td>
<td></td>
</tr>
</tbody>
</table>
Mathematics, MS: Foundations of Advanced Studies

Objective of Mathematics MS: Foundations of Advanced Studies (Option E)

This option is designed to prepare students for advanced-level graduate programs. It is structured so that students with basic preparation from their undergraduate institutions can complete the option in no more than two years. Some students with a higher level of preparation may transfer up to 12 graduate credits from the courses they completed previously; such students may advance more quickly through the program and complete the degree in only one year.

Overview of Mathematical Sciences Department MS programs

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master’s degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master’s degree option. The department also offers a master’s degree in atmospheric science.

Dual Master’s Degree Option

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master’s degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Completion of three semesters of undergraduate calculus.
2. At least 18 credits of acceptable undergraduate preparation beyond calculus, including at least 3 credits of Linear Algebra (MATH 525 or equivalent) and at least 3 credits of Advanced Calculus (MATH 521 or equivalent).

Applicants who intend to be admitted with specific program-defined course deficiencies should consider the Standard Math Option instead.

Credits and Courses
Minimum degree requirement is 30 credits from mathematics/statistics courses, including

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 622</td>
<td>and Introduction to Analysis II</td>
<td></td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 632</td>
<td>and Modern Algebra II</td>
<td></td>
</tr>
</tbody>
</table>

At least 12 credits must be taken in courses numbered 700 or above.

Up to 6 credits may be in approved courses from outside the department.

Total Credits

30

Students who already have taken MATH 621/MATH 622 and/or MATH 631/MATH 632 (or equivalent courses as another institution) as undergraduates may request permission to take alternatives from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 711</td>
<td>Theory of Functions of a Real Variable I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 712</td>
<td>and Theory of Functions of a Real Variable II</td>
<td></td>
</tr>
<tr>
<td>MATH 713</td>
<td>Theory of Functions of a Complex Variable I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 714</td>
<td>and Theory of Functions of a Complex Variable II</td>
<td></td>
</tr>
<tr>
<td>MATH 731</td>
<td>Abstract Algebra I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 732</td>
<td>and Abstract Algebra II</td>
<td></td>
</tr>
<tr>
<td>MATH 751</td>
<td>Introductory Topology I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 752</td>
<td>and Introductory Topology II</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Associate Chair for Graduate Programs assigns a temporary advisor for the entering graduate student.

Examination
The student must pass a written comprehensive examination.

Time Limit
The student must complete all degree requirements within 5 years of initial enrollment. Normally, the student can complete all degree requirements within two years of initial enrollment. Students who have prior graduate coursework may be able to complete the degree requirements in 1 year.

Financial Support
The Department of Mathematical Sciences does not offer financial support to students enrolled in this program.

Mathematics, MS: Industrial Mathematics

Objective of Mathematics MS: Industrial Mathematics (Option B)
The objective of the master’s program in industrial mathematics is to enable students to acquire the fundamentals of applied mathematics in areas of classical and numerical analysis, differential equations and dynamical systems, and probability and statistics. At the same time, the connection of these fields to modeling of physical, biological, and engineering phenomena will be stressed by requiring credits outside of the Department of Mathematical Sciences. Students are to obtain practical experience in mathematical modeling and analysis during an internship or industrial project that will culminate in a thesis.

Overview of Mathematical Sciences
Department MS programs
The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master's level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master's program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master’s degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master’s degree option. The department also offers a master's degree in atmospheric science.

Dual Master’s Degree Option
In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany...
have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master’s degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet the Graduate School requirements as well as the following departmental requirements to be considered for admission to the program:

1. A bachelor’s degree in an area of mathematical science (applied or pure mathematics, actuarial science, statistics, etc.), computer science, economics or finance, physics, engineering, or a related field.
2. Completion of at least three semesters of undergraduate calculus plus at least 6 credits of acceptable mathematics courses requiring calculus.

Students satisfying only the minimum mathematics requirements will be expected to take courses that do not count toward the degree.

General Requirements
A student must have completed, either prior to entering the program or by the time of graduation, courses in advanced calculus, numerical analysis, and ordinary differential equations. In addition, students must complete courses involving Fourier series, linear algebra, linear programming, mathematical modeling, partial differential equations, probability, and calculus-based statistics.

Credits and Courses
At least 36 graduate credits in G or U/G courses at UWM are required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 701</td>
<td>Industrial Mathematics I</td>
<td>6</td>
</tr>
<tr>
<td>MATH 715</td>
<td>Numerical Analysis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>6 additional credits at or above the 600 level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coherent set of approved courses (300-level or above) in application area outside the department *</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Max 6 credits in any combination of independent study or seminar or thesis (MATH 790, MATH 791, MATH 792, MATH 799, or MATH 990)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>36</td>
</tr>
</tbody>
</table>

* Application areas: Physics, Engineering, Business. Students already proficient in an application area are expected to substitute mathematics courses.

Courses are subject to the following regulations:

- Maximum 12 credits below the 500 level from within the Department of Mathematical Sciences;
- Advisor’s prior written approval for every course.

Student also must have demonstrated knowledge of an advanced scientific programming language approved by the Industrial Mathematics Committee.

Special Recommendation
It is recommended that, by the time of graduation, students master the material presented in the following courses, either prior to enrolling or through coursework:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 602</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 701</td>
<td>Industrial Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 702</td>
<td>Industrial Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 715</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must work closely with their advisors to ensure satisfaction of the General, Coursework, and Thesis requirements for timely graduation.

Approved Industrial Mathematics Courses

Applied Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Stochastic Models in Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 423</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 521 &amp; MATH 522</td>
<td>Advanced Calculus I and Advanced Calculus II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to the Theory of Chaotic Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601 &amp; MATH 602</td>
<td>Advanced Engineering Mathematics I and Advanced Engineering Mathematics II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 621 &amp; MATH 622</td>
<td>Introduction to Analysis I and Introduction to Analysis II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 701 &amp; MATH 702</td>
<td>Industrial Mathematics I and Industrial Mathematics II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 703</td>
<td>Boundary Value Problems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 709</td>
<td>Differential Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>
 Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies. The entering graduate student is assigned an advisor by the chair of the Industrial Mathematics Committee. Depending on the thesis topic, the student may later change advisors.

Thesis
A thesis in which the student solves a mathematical problem with an industrial source is required. The student must work with the advisor/ major professor from the start of the thesis through its completion, receiving his/her approval. The student must pass an oral defense before three faculty members.

Time Limit
Full-time students, without deficiencies, could be expected to complete the program in two years. All degree requirements must be completed within seven years of initial enrollment.

Mathematics, MS: Statistics

Mathematics MS: Statistics (Option C)
Currently enrolled students have the option of following the old or new requirements. Students entering in Fall 2014 or later must complete the new requirements.

Overview of Mathematical Sciences Department MS programs
The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master’s degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master’s degree option. The department also offers a master’s degree in atmospheric science.

Dual Master’s Degree Option
In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master’s degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following departmental requirements to be considered for admission to the program: completion of three semesters of undergraduate calculus and at least 18 credits of acceptable undergraduate preparation beyond calculus; these credits should include courses on probability and statistics equivalent to the sequence MTHSTAT 361/MTHSTAT 362, and courses on advanced calculus equivalent to the sequence MATH 521/MATH 522.

Applicants with deficiencies in probability and statistics may be admitted to the program but will be required to complete the sequence MTHSTAT 361/MTHSTAT 362. Applicants with calculus deficiencies may also be admitted to the program but will be required to complete the sequence MATH 521/MATH 522. Students are expected to make up deficiencies within four enrolled semesters; no course credits earned in making up deficiencies may count toward the degree credit requirement.

The minimum requirement is 30 graduate credits. Students must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 632</td>
<td>and Modern Algebra II</td>
<td></td>
</tr>
<tr>
<td>MATH 768</td>
<td>Applied Stochastic Processes</td>
<td></td>
</tr>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 622</td>
<td>and Introduction to Analysis II</td>
<td></td>
</tr>
<tr>
<td>MATH 711</td>
<td>Theory of Functions of a Real Variable I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 712</td>
<td>and Theory of Functions of a Real Variable II</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select at least one other 560-level MthStat course, such as the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 562</td>
<td>Design of Experiments</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>24-27</td>
</tr>
</tbody>
</table>

Students who already have taken some of these courses as undergraduates, or equivalent courses at another institution, should choose alternatives from the following list, subject to the advisor's approval:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MthStat courses numbered 700 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics course offered by the Division of Biostatistics of the Medical College of Wisconsin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 711</td>
<td>Theory of Functions of a Real Variable I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 712</td>
<td>and Theory of Functions of a Real Variable II</td>
<td></td>
</tr>
<tr>
<td>MATH 713</td>
<td>Theory of Functions of a Complex Variable I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 714</td>
<td>Theory of Functions of a Complex Variable II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 721</td>
<td>Abstract Measure and Integration</td>
<td>3</td>
</tr>
<tr>
<td>MATH 768</td>
<td>Applied Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>MATH 771</td>
<td>Theory of Probability</td>
<td>3</td>
</tr>
<tr>
<td>ACTSCI 596</td>
<td>Actuarial Statistics I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ACTSCI 597</td>
<td>and Actuarial Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

Thesis Option
Students have the option of writing a thesis, subject to the advisor’s approval. Students who write a thesis are exempt from the Master’s Proficiency Exam, and they earn 3 credits toward the degree by enrolling in MATH 790. Students who choose the thesis option must pass an oral defense of the thesis.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. Each entering graduate student is assigned a temporary advisor by the Department Graduate Program Coordinator.

Master’s Proficiency Exam
Students who do not complete the thesis option are required to pass a written comprehensive examination that tests basic knowledge of statistical theory and either mathematical analysis or algebra.

Time Limit
Students must complete all degree requirements with 5 years of initial enrollment.

Mathematics, PhD
The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, and industrial mathematics. The Department also offers both MS and PhD degrees in atmospheric science.

A student may prepare for a career in teaching at the secondary or college level, and for a career in research in the academic, industrial, government, or business communities.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a PhD, as well as the student who...
wishes to begin a professional career upon completion of the master's program.

The Department has a vibrant PhD program. Mathematics research specialties available to students include:

- Actuarial Science (http://uwm.edu/math/research/actuarial-science/)
- Algebra (http://uwm.edu/math/research/algebra/)
- Analysis (http://uwm.edu/math/research/analysis/)
- Applied Mathematics (http://uwm.edu/math/research/applied-mathematics/)
- Differential Equations (http://uwm.edu/math/research/differential-equations/)
- Numerical Analysis (http://uwm.edu/math/research/numerical-analysis/)
- Probability (http://uwm.edu/math/research/probability/)
- Statistics (http://uwm.edu/math/research/statistics/)
- Topology (http://uwm.edu/math/research/topology/)

For more details on the Department's research groups and the research interests of its faculty members click here (http://uwm.edu/math/research/).

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus departmental requirements as given for admission to the master's program. A master's degree is not a prerequisite for admission to this PhD program.

**Reapplication**
A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

**Credits and Courses**
Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. The student, in consultation with the major professor, must select both a primary and a secondary area of specialization. The primary area may be chosen from one of the following seven fields:

### Transcript Designated Concentrations

#### Applied Mathematics Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Credits</td>
<td>in Algebra</td>
<td>3</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Complex Analysis</td>
<td>6</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td>12 Credits</td>
<td>in Applied Mathematics</td>
<td>12</td>
</tr>
<tr>
<td>3 Credits</td>
<td>Outside the Field</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Probability and Statistics Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Credits</td>
<td>in Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Real Analysis</td>
<td>6</td>
</tr>
<tr>
<td>12 Credits</td>
<td>in Probability and Statistics</td>
<td>12</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Applied Mathematics</td>
<td>3</td>
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</table>

#### Actuarial Science Field

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>6 Credits</td>
<td>in Actuarial Science</td>
<td>6</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Applied Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Probability and Statistics</td>
<td>6</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Real Analysis</td>
<td>6</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Business or Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** Admission to this program is limited to students who have made significant progress towards and are close to achieving a professional designation from an internationally recognized actuarial organization.

#### Non-Transcript Designated Specializations

##### Algebra Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>12 Credits</td>
<td>in Algebra</td>
<td>12</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Topology</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>Outside the Field</td>
<td>3</td>
</tr>
</tbody>
</table>

##### Analysis Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Credits</td>
<td>in Algebra</td>
<td>3</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Complex Analysis</td>
<td>6</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Real Analysis</td>
<td>6</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Topology</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>Outside the Field</td>
<td>3</td>
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</tbody>
</table>

##### Topology Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>3 Credits</td>
<td>in Algebra</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td>12 Credits</td>
<td>in Topology</td>
<td>12</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>Outside the Field</td>
<td>3</td>
</tr>
</tbody>
</table>

##### Industrial Mathematics Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Credits</td>
<td>in Algebra or Topology</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>3 Credits</td>
<td>in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td>9 Credits</td>
<td>in Applied Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Probability and Statistics</td>
<td>6</td>
</tr>
<tr>
<td>6 Credits</td>
<td>in Approved Credits Outside Math and MthStat</td>
<td>6</td>
</tr>
</tbody>
</table>
The secondary area may be chosen from another of these fields or may be chosen from another appropriate department. Minimum course requirements for all work in both areas of specialization require approximately two full years of study.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering graduate student is assigned a temporary advisor by the Department Graduate Program Coordinator.

Foreign Language
Each student must pass a written examination in one foreign language; the examination is administered by the Department’s Language Committee. Acceptable languages are French, German, and Russian; exceptions may be permitted upon written request of advisor.

Computer Proficiency
The student shall pass an examination on a higher programming language and/or other appropriate advanced computer skills; the examinations administered by the Department’s Computer Committee. The Computer Committee may accept advanced computer science coursework in lieu of the examination.

Residence
The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examination
When the student is sufficiently prepared — normally when the student has earned 24 credits in specified areas above the 700 level — a doctoral preliminary examination to determine the student’s knowledge and achievement is taken. For students in mathematics, the exam evaluates the student’s general knowledge of mathematics, as well as the student’s knowledge of the major area of concentration. Students must pass this examination to continue in the program. With permission of the examination committee, the student may repeat this examination once. If the student does not have a master’s degree in mathematics before this examination, the committee will determine whether the student’s performance is sufficient to qualify for the master’s degree.

Doctoral Dissertation Proposal Hearing
After passing the language requirements and the doctoral preliminary examination, the student participates in a doctoral dissertation proposal hearing. At this hearing, the student is examined on the student’s chosen area of research and a dissertation topic is approved.

Dissertation
The primary requirement for the PhD in mathematics is the candidate’s completion, under the supervision of the Department advisor, of an original and significant mathematical investigation presented in the form of a dissertation. The investigation is to be in the field of algebra, analysis, applied mathematics, probability and statistics, topology, or actuarial science. A dissertation for the industrial mathematics field must involve an industrial problem requiring a mathematical solution.

Dissertation Defense
The candidate must, as the final step toward the degree, present a colloquium based on the dissertation and must pass an oral examination in defense of the dissertation. If the candidate does not successfully defend a thesis within five years of admission to candidacy, the candidate may be required to take another doctoral preliminary examination and be readmitted to candidacy.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. Note that students seeking the PhD are limited to a maximum of seven years, inclusive of time spent in pursuit of an initial MS degree, of departmental financial support.

Minor Area for Other PhD Majors
A doctoral student planning a physical science major other than mathematics may fulfill requirements for mathematics as the minor area of concentration by completing 12 credits of approved mathematics courses with a grade of B or better, at least 6 credits of which must be in courses 700 or above.

A doctoral student planning a non-physical science major may fulfill requirements for mathematics as the minor area of concentration by completing 12 credits with a grade of B or better in approved mathematics courses 300 or above.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.

Middle Eastern and North African Studies, Undergraduate Certificate

The Undergraduate Certificate in Middle Eastern and North African Studies (MENA) provides students with a thorough understanding of the languages, cultures, history, and societies of the region.

The Middle East has long played a critical role in global economics and politics. Often portrayed by the media as a place of endless conflict, the Middle East is incredibly complex and made up of numerous nations, each with its own political, religious, geographic, and economic structure and traditions. Student in the MENA certificate program explore this complex region by studying the area’s literature, languages, history, politics, religion, and art.

The certificate may be of particular interest to students who plan to enter government service or global business, and complements a number of different majors including history, religious studies, political science, economics, business, geography, foreign languages, and anthropology. The program requires one year of either Arabic or Hebrew language courses.

Many students participate in a study abroad (http://uwm.edu/cie/study-abroad/) experience to build on their classroom learning.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility
The Undergraduate Certificate in Middle Eastern and North African Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as a non-degree student, individuals must meet regular University admission
requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

Requirements

The program requires one year of Arabic or Hebrew language courses and a historical survey course. Upper-level courses offer students the opportunity to explore Middle Eastern literature, history, politics, religion, and art in greater depth. Courses totaling 23 credits must be completed with a GPA of 2.750 or better. At least one half of the work for the certificate must be taken at UWM. The Committee for Middle Eastern and North African Studies administers the program and advises students.

In addition to taking courses related to the Middle East and North Africa, students have opportunities to meet and study with Middle Eastern scholars who regularly visit UWM through a number of institutional partnerships with Middle Eastern universities. Students also may take advantage of study abroad programs that offer credit for academic work in the Middle East and North Africa.

Following are the detailed requirements for the certificate. For the specific content and prerequisites of each course, click on the subject code and course number below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARABIC 101</td>
<td>First Semester Arabic</td>
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</tr>
<tr>
<td>ARABIC 102</td>
<td>Second Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>HEBREW 101</td>
<td>First Semester Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HEBREW 102</td>
<td>Second Semester Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
<tr>
<td>HIST 319</td>
<td>The Era of the Crusades</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (with appropriate subtitle, e.g., &quot;Judaism in the Ancient World&quot;)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 401</td>
<td>Topics in Middle Eastern History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 600</td>
<td>Seminar in History: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>INTLST 450</td>
<td>Internship in International Studies: (with appropriate subtitle)</td>
<td>2-6</td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 231</td>
<td>Introduction to the Old Testament/ Hebrew Bible</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 321</td>
<td>The Holocaust and the Politics of Memory</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 332</td>
<td>Women in the Bible</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 461</td>
<td>Islamic Philosophy and Mysticism</td>
<td>3</td>
</tr>
</tbody>
</table>
Philosophy

A problem may be called "philosophical" when it has depth and universality, far-reaching theoretical ramifications, human importance, and no easy solution. Philosophical problems constitute the subject matter of philosophy.

Academic courses in philosophy have the value of introducing the crucial problems in a systematic way, exposing students to fruitful methods for attacking them, to models of solid, hard-hitting argumentation, and to a literature ranging from Plato's Dialogues to current professional journals. The relevance of philosophy is nowhere better exhibited than in the distinctions ignored, the arguments overlooked, and the errors repeated by persons unfamiliar with that literature.

Programs

- Ethics, Values, and Society (CEVS), Undergraduate Certificate (p. 1105)
- Philosophy, BA (p. 1107)
- Philosophy, MA (p. 1110)
- Philosophy, Minor (p. 1112)

Ethics, Values, and Society (CEVS), Undergraduate Certificate

The Undergraduate Certificate in Ethics, Values, and Society (CEVS) is an academic program for undergraduates to explore questions about ethics, politics, and social justice across topics and subject areas. We believe that ethics and values are an integral part of every major and discipline. In particular, the Certificate enables students to combine more practical and applied inquiries into ethical and social/political issues (perhaps pursued in the student's major) with grounding in the theoretical foundations of such inquiries.

The grounding in the main theories of ethics and political philosophy provided in the Foundational Philosophy Courses in the Certificate will add depth and richness to the student's studies in other, more applied and content-specific classes.

Certificate courses are organized around five themes with which most of the courses can be associated. Students are encouraged (not required) to select their Certificate courses with a thematic focus in mind:
1. **Institutions**: This theme concerns questions of ethics and justice in political, economic, legal, educational, and other institutions. Issues regarding international justice and human rights are also covered by this theme.

2. **Culture and Identity**: This theme explores and critiques conceptions of ethics and justice in relation to issues of culture and identity, including issues concerning class, race, gender, and sexual orientation.

3. **Environment**: This theme covers the just distribution and use of environmental resources, as well as the ethical treatment of non-human animals.

4. **Health**: This theme covers the just distribution and use of health resources, problems in bioethics, and related issues.

5. **Information Ethics**: This theme examines ethical issues regarding media and the use of information technology.

### Eligibility

The Undergraduate Certificate in Ethics, Values, and Society is meant to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

### Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits (at least 6 courses) in approved CEVS courses, of which at least 12 credits must be in Letters and Science courses, with 6 of those at the 300 level or above. At least 12 credits must be earned in residence at UWM, and at least 9 of the credits taken in residence must be at the 300 level or above. No more than 12 credits from any one department may count toward the certificate. Courses for the certificate may not be taken on a credit/no credit bases. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 265</td>
<td>Psychological Effects of Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 416</td>
<td>Race and Social Justice in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 309</td>
<td>Great Works of Modern Literature: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 464</td>
<td>Seminar in Comparative Literary Criticism:</td>
<td>3</td>
</tr>
<tr>
<td>ECON 328</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
<td>3</td>
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<tr>
<td>INFOST 120</td>
<td>Information Technology Ethics</td>
<td>3</td>
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<tr>
<td>INFOST 661</td>
<td>Information Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 357</td>
<td>Topics in Italian Culture in Translation: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 461</td>
<td>Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 491</td>
<td>Honors Seminar: (Controlling Dissent)</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 321</td>
<td>The Holocaust and the Politics of Memory</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
</tbody>
</table>

The capstone requirement is fulfilled through a 500-600 level undergraduate seminar focused on issues of ethics, value, and/or social justice. An appropriate seminar will be offered in the Philosophy Department at least once per academic year.

### Electives

Select from among the following courses that focus substantially on themes of ethics, value, justice, and the like.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHILOS 241</td>
<td>Introductory Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 341</td>
<td>Modern Ethical Theories</td>
<td></td>
</tr>
<tr>
<td>PHILOS 349</td>
<td>Great Moral Philosophers</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 242</td>
<td>Introduction to Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 355</td>
<td>Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHILOS 384</td>
<td>The Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 242</td>
<td>Introduction to Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 355</td>
<td>Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHILOS 384</td>
<td>The Philosophy of Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 18
JEWISH 449 Modern Jewish Thought 3
PHILOS 235 Philosophical Aspects of Feminism 3
PHILOS 237 Technology, Values, and Society 3
PHILOS 243 Moral Problems: 1
PHILOS 244 Ethical Issues in Health Care: 3
PHILOS 337 Environmental Ethics 3
PHILOS 435 Existentialism 3
PHILOS 535 Philosophical Topics in Feminist Theory: 3
PHILOS 542 Punishment and Responsibility 3
PHILOS 562 Special Topics in Ethics and Social and Political Philosophy.

SOCIOL 350 Environmental Sociology 3
TRNSLTN 411 Ethics and Procedures in Interpreting 3
WGS 150 Multicultural America 3
WGS 200 Introduction to Women's and Gender Studies: A Social Science Perspective 3
WGS 201 Introduction to Women's and Gender Studies: A Humanities Perspective 3
WGS 300 Gender and Spirituality: 3
WGS 301 Queer Theory 3
WGS 302 Gendered Bodies: 3
WGS 303 Feminist Activism and Movements: 3
WGS 401 Global Feminisms 3
WGS 410 Feminist Theory 3

Contact Information
Current Students contact Associate Professor William Bristow, bristow@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/philosophy/undergraduate/ethics-values-and-society-certificate/

Philosophy, BA
The study of Philosophy can be challenging because it asks students to critically examine very fundamental questions about what it means to be human - behavior, values, ethics, logic, aesthetics. Some describe it as "thinking in slow motion" because of the way it explores in depth the human experience.

Students choose philosophy because it instills a lifelong love and quest for knowledge, it imparts a disciplined and systematic way of thinking, and it enhances critical and analytical capacities. Most graduates of philosophy describe the great personal reward that comes from exploring the great thinkers of the past in the context of modern issues. But, they also passionately value the career skills that they developed - how to read and comprehend difficult text; how to understand different interpretations of information and assess opposing viewpoints; how to craft a clear and logical position on an issue in writing and orally; and how to make connections between smaller, seemingly disparate details and the big picture.

By mid-career, philosophy majors outearn business majors, on average, largely because their knowledge and skills make them excellent leaders in business, nonprofit, law, government work, education, and more.

The undergraduate program is relatively small, resulting in more one-on-one attention from faculty than might be found at another university.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning 1 or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
</tbody>
</table>
Select 6 credits

**Natural Sciences**
Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

I. **English Composition Requirement**
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. **Mathematics and Formal Reasoning**
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning ¹</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. **Foreign Language Requirement**
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
</tbody>
</table>

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)
IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ ) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Arts</td>
<td>Select 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Select 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Philosophy Major Requirements
At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, PHILOS 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

The College of Letters & Science requires that students complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students also must attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, they must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Students must fulfill the capstone/research requirement in the senior year. It is recommended strongly that students become proficient in at least one related academic discipline. Each major will be asked to submit a paper for inclusion in a portfolio that is kept in the department. Typically, this will be a paper written for PHILOS 685. It should be stressed that this is not an additional requirement for graduation as a major. Rather, it is part of the department’s ongoing effort to evaluate and improve our major program.

A minimum of 30 credits in philosophy is required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic 1</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 341</td>
<td>Modern Ethical Theories</td>
<td></td>
</tr>
<tr>
<td>PHILOS 349</td>
<td>Great Moral Philosophers</td>
<td></td>
</tr>
<tr>
<td>PHILOS 355</td>
<td>Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 303</td>
<td>Mind and Knowledge</td>
<td></td>
</tr>
<tr>
<td>PHILOS 317</td>
<td>Metaphysics</td>
<td></td>
</tr>
<tr>
<td>PHILOS 324</td>
<td>Philosophy of Science</td>
<td></td>
</tr>
<tr>
<td>PHILOS 351</td>
<td>Philosophy of Mind</td>
<td></td>
</tr>
<tr>
<td>Select any philosophy course numbered 500 or above (excluding the course you choose to satisfy the capstone requirement)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 9 credits of philosophy electives

Capstone/Research Requirement
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, gjaworsk@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/philosophy/undergraduate/

Philosophy, MA

The Department of Philosophy offers a program of graduate study leading to the degree of Master of Arts. The general purpose of this program is to provide students with the background and stimulus for critical and original philosophical thought. The program is designed to serve both those students who wish to pursue a Doctor of Philosophy degree in philosophy and those students who wish either to terminate their formal philosophical studies with the Master of Arts degree or to integrate a graduate level of study in philosophy with graduate studies in other academic areas.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

- Undergraduate major in philosophy or other academic background judged suitable by the Department.
- Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre).
• Three letters of recommendation concerning academic qualifications.
• A sample of written work is recommended but not required.
• **Language and Linguistics Concentration only:** LINGUIS 464 or an equivalent.

## Credits and Courses

### History Requirement

Students taking Option A or B will be required to demonstrate competence in history of philosophy by passing the following two courses with a grade of B or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period</td>
<td>3</td>
</tr>
</tbody>
</table>

The Graduate Studies Committee may certify competence if the student has as an undergraduate taken PHILOS 430 and PHILOS 432 at UWM within the past five years or has taken their equivalent as determined by the Committee. The determination may include an equivalency exam.

Students selecting the language and linguistics concentration need only meet the requirement for PHILOS 432.

### Logic Requirement

The student is required to demonstrate competence in logic by passing with a grade of B or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 511</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 712</td>
<td>Fundamentals of Formal Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

The Graduate Committee may certify competence if within the last five years the student has taken PHILOS 511 or PHILOS 712 or has taken an equivalent course as determined by the Committee. The determination may include an equivalency exam.

### Degree Alternatives

The Department of Philosophy offers three alternatives by which the Master of Arts degree in philosophy may be obtained: Option A, the non-thesis option; Option B, the thesis option; and a language and linguistics concentration with a thesis. There is no foreign language requirement for the completion of the Master of Arts degree in philosophy, though students are encouraged to develop proficiency in a foreign or classical language.

#### Option A: Non-Thesis Option (30 Credits Plus Exam)

Minimum degree requirement is 30 credits in coursework, 21 of which must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses in philosophy</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Related fields</td>
<td>At least 12 credits in graduate seminars</td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

A student proposing a program of study involving more than 9 credits of independent study, or fewer than 21 credits in philosophy courses, must gain specific approval of the student’s advisory committee.

Every student choosing the non-thesis option takes a written exam of no longer than four hours on a philosophical area chosen by the student in consultation with the advisory committee. At least one full semester before the student is to take this exam, a specific list of primary and secondary sources to be covered on the exam is drawn up by the committee together with the student. The committee provides the student with sample questions.

#### Option B: Thesis Option (30 Credits Plus Defense)

Minimum degree requirement is 30 credits in coursework, 21 of which must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses in philosophy</td>
<td>At least 12 credits in graduate seminars</td>
<td>1</td>
</tr>
<tr>
<td>Related fields</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1. Each course must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 toward meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.

#### Language and Linguistics Concentration with Thesis (30 credits Plus Defense)

Minimum degree requirement is 30 credits, including the writing of a thesis, plus its defense. All 30 credits must be earned with a grade of B or better. Of the 30 credits at least 18 credits must be in philosophy with the remainder in linguistics.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 516</td>
<td>Language and Meaning 1</td>
<td>3</td>
</tr>
<tr>
<td>Other credits in Philosophy</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>LINGUIS 455</td>
<td>Semantics 1</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 564</td>
<td>Advanced Syntax 1</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Seminars 2</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1. May be waived if the student has taken these courses at UWM within the past five years or has taken their equivalent as determined by the Graduate Studies Committee.

2. The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 towards meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.
A student proposing a program of study involving more than 9 credits of independent study must gain specific approval of the student's advisory committee.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. At time of admission, the student's program will be supervised by the Graduate Advisor.

A student planning to work beyond the master's program should select, in consultation with the advisor, courses which will develop broad philosophical competence. A student intending to terminate studies with the master's degree may plan a more specialized program.

Advisory Committee
During the first year in attendance, the student chooses an advisor and an advisory committee of three faculty members. The student's advisor serves as chair of this committee. The choice of committee is made in consultation with the student's advisor, and submitted to the Department's Graduate Studies Committee for approval. No later than the second week of the student's second semester in the program, the advisory committee meets with the student to discuss the individual's background in philosophy and goals in this program. By the end of the student's second semester the committee has conferred with the student's instructors and meets with the student to discuss that individual's progress in the program. At that time the student, together with the committee, plans the balance of the student's work in the program and how all requirements can best be met. The committee continues to gather information on the student's class work from the instructors, and at least once each semester meets with the student to discuss the student's continuing progress, future plans in the program and the meeting of departmental requirements. The student may at any time petition the Graduate Studies Committee for a change in the composition of the advisory committee.

Option A: Non-Thesis Option (30 Credits Plus Exam)
Thesis
Not required.

Time Limit
This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

Option B: Thesis Option (30 Credits Plus Defense)
Thesis
Required (as above).

Time Limit

Language and Linguistics Concentration with Thesis (30 credits Plus Defense)
Thesis
The thesis is to be written on a language related subject chosen in consultation with the student's advisory committee. The student and the committee are to meet sufficiently often so that the committee may adequately supervise the writing of the thesis. Upon completion of the thesis the student is required to defend the thesis orally. PHILOS 990 may be taken only once.

Time Limit
This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

Philosophy, Minor

The study of Philosophy can be challenging because it asks students to critically examine very fundamental questions about what it means to be human - behavior, values, ethics, logic, aesthetics. Some describe it as "thinking in slow motion" because of the way it explores in depth the human experience.

Students choose philosophy because it instills a lifelong love and quest for knowledge, it imparts a disciplined and systematic way of thinking, and it enhances critical and analytical capacities. Most graduates of philosophy describe the great personal reward that comes from exploring the great thinkers of the past in the context of modern issues. But, they also passionately value the career skills that they developed - how to read and comprehend difficult text; how to understand different interpretations of information and assess opposing viewpoints; how to craft a clear and logical position on an issue in writing and orally; and how to make connections between smaller, seemingly disparate details and the big picture.

The undergraduate program is relatively small, resulting in more one-on-one attention from faculty than might be found at another university.

Requirements

At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, PHILOS 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. Students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Students wishing to minor in philosophy should consult with the undergraduate program coordinator in order to complete a declaration of minor form and be assigned a departmental advisor.

The minor requires 21 credits in philosophy. Twelve credits are required at the 300 level or above, 9 of which must be taken in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td></td>
</tr>
<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period</td>
<td></td>
</tr>
</tbody>
</table>

Select six additional philosophy courses 18

Total Credits 21

Contact Information

Current Students contact the Department directly, gjaworsk@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
Physics

The principles of physics provide the underpinnings for many of the scientific and technological advances of the last several decades.

Experimental research facilities are available in the areas of condensed matter, surface science, biophysics, and optics. Theoretical studies are conducted in relativity and cosmology, high energy physics, biophysics, medical imaging, and condensed matter physics. Observational studies focus on relativistic astrophysics, multi-messenger astronomy, and galaxy evolution. Joint study with other departments can also be arranged.

Programs

- Physics, BS (p. 1114)
- Physics, Minor (p. 1118)
- Physics, MS (p. 1118)
- Physics, PhD (p. 1120)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Agterberg</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Toronto</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donald E. Beck</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td></td>
<td></td>
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<tr>
<td>Patrick Brady</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Alberta</td>
<td></td>
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<tr>
<td>Philip Chang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Santa Barbara</td>
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<tr>
<td>Yutze Chow</td>
<td>Professor Emeritus</td>
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<tr>
<td>Jolien Creighton</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Waterloo-Ontario</td>
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<tr>
<td>Richard H. Dittman</td>
<td>Professor Emeritus</td>
<td>PhD</td>
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<tr>
<td>Dawn Erb</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>California Institute of Technology</td>
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</tr>
<tr>
<td>John L. Friedman</td>
<td>Distinguished Professor Emeritus</td>
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<tr>
<td>Marija Gajardziska-Josifovska</td>
<td>Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
<td></td>
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</tr>
<tr>
<td>Robert G. Greenler</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Bombay, India</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prasenjit Guptasarma</td>
<td>Professor</td>
<td>PhD</td>
<td>Yale University</td>
<td></td>
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<tr>
<td>Carol Hirschmugl</td>
<td>Professor</td>
<td>PhD</td>
<td>California Institute of Technology</td>
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<tr>
<td>David Kaplan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
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<td>Moises Levy</td>
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<tr>
<td>Paul Lyman</td>
<td>Professor</td>
<td>PhD</td>
<td>Wolfson College, Oxford</td>
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<tr>
<td>Abbas Ourmazd</td>
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<tr>
<td>Leonard E. Parker</td>
<td>Distinguished Professor Emeritus</td>
<td>PhD</td>
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<tr>
<td>Sarah Patch</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
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<tr>
<td>Ionel Popa</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Geneva, Switzerland</td>
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<tr>
<td>Valerica Raicu</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Bucharest, Romania</td>
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<tr>
<td>Dilano K. Saldin</td>
<td>Distinguished Professor Emeritus</td>
<td>PhD</td>
<td>Oxford University</td>
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<tr>
<td>Bimal K. Sarma</td>
<td>Professor Emeritus</td>
<td>PhD</td>
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<tr>
<td>Glenn Schmieg</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td></td>
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<tr>
<td>Peter Schwander</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Swiss Federal Institute of Technology</td>
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<tr>
<td>Xavier Siemens</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Tufts University</td>
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<tr>
<td>Dale R. Snider</td>
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<td>PhD</td>
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<tr>
<td>Richard S. Sorbello</td>
<td>Professor Emeritus</td>
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<tr>
<td>Sarah Vigeland</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Michael Weinert</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
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</tr>
<tr>
<td>Alan Wiseman</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>Washington University</td>
<td></td>
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</tr>
</tbody>
</table>
Physics, BS

Physics is the study of matter and energy and their interactions, both in nature and under man-made conditions. Physics provides both the fundamental foundation for science and technology, and the framework for understanding the world around us and the universe itself.

UWM students can shape their Physics major in one of two directions. The standard major provides a broad overview of all aspects of physics: mechanics, optics, thermodynamics, quantum physics, magnetism, electricity, and the mathematical principles that underlie physics. In the astronomy focused version of the major, students master these basics plus take additional coursework in astrophysics and gravitation. UWM’s program provides excellent preparation for graduate programs in physics, engineering, and math, and can also serve as a springboard to careers in diverse areas, including engineering, business, law, and medicine. All Physics undergraduates are encouraged to get involved in research as early as their freshman year as a means to enhance their education and help diversify their career options.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/).

The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
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<tr>
<td>Part B</td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

Math

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (At least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-
wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Complete one of the following:

- **3 or more credits in any 200-level or above Math course**
- AFRIC 220 Introduction to Statistics in African and African Diaspora Studies
- ANTHRO 568 Introduction to Anthropological Statistics
- ATM SCI 500 Statistical Methods in Atmospheric Sciences
- BIO SCI 465 Biostatistics
- ECON 210 Economic Statistics
- GEOG 247 Quantitative Analysis in Geography
- HIST 595 The Quantitative Analysis of Historical Data
- MTHSTAT 215 Elementary Statistical Analysis
- PHILOS 211 Elementary Logic
- POL SCI 390 Political Data Analysis
- POL SCI 392 Survey Research
- PSYCH 210 Psychological Statistics
- SOCIOL 261 Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

**Code** | **Title** | **Credits** | **Completed in one of the following ways:** | **Credits** |
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
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<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
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</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

**Code** | **Title** | **Credits** | **Arts** | **Credits** |
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
<td>Select 3 credits</td>
<td></td>
</tr>
</tbody>
</table>

**Humanities**
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *

**Social Sciences**
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *

**Natural Sciences**
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *

**Cultural Diversity**
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether
those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Physics Major Requirements
Freshmen who enter with scores of 4 or 5 on the Physics Advanced Placement exam given by CEEB are given partial credit for the introductory courses.

Students who have a combined GPA of 2.500 or above in all mathematics and physics courses taken in the first two years will be approved for a major in physics. This requirement will be waived in those cases where students are able to show evidence of unusual circumstances.

The department offers two study options. The standard physics major is for students who seek a general physics degree. The physics major with astronomy emphasis is for students who wish to pursue their interest in astronomy. While the standard physics major generally is followed by students who plan to go on to graduate school, the major with astronomy emphasis also enables students to pursue graduate work in physics.

Both options require that students take at least 15 credits in advanced-level (numbered 300 and above) courses in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. All students in the College are required to complete a research experience in their majors. Physics majors meet this requirement by successfully completing an upper-level, 3-credit laboratory course.

Standard Physics Major
A minimum of 43 credits in physics, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tr>
<td>PHYSICS 217</td>
<td>Thermodynamics</td>
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</tr>
<tr>
<td>PHYSICS 325</td>
<td>Optics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory</td>
<td></td>
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<tr>
<td>PHYSICS 670</td>
<td>Electron Microscopy Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation</td>
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<tr>
<td>PHYSICS 411</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 420</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 422</td>
<td>Electricity and Magnetism II</td>
<td>3</td>
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<tr>
<td>PHYSICS 441</td>
<td>Introduction to Quantum Mechanics I</td>
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</tr>
<tr>
<td>PHYSICS 442</td>
<td>Introduction to Quantum Mechanics II</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: ¹

1. PHYSICS 219 and PHYSICS 220 are strongly recommended; however, PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 courses may be substituted.
2. These courses are not offered every semester; check with the undergraduate advisor to plan for completing this requirement.
3. The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.

Individual departments or programs may require higher GPAs for the requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

Electives
Selecting electives are encouraged (see below)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 270</td>
<td>Introduction to Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 305</td>
<td>Medical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 306</td>
<td>Introduction to Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 351</td>
<td>Basics of Condensed Matter Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 370</td>
<td>Analytical and Numerical Methods in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation</td>
<td>1-6</td>
</tr>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 515</td>
<td>Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 517</td>
<td>Special Relativity</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 531</td>
<td>Principles of Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 532</td>
<td>Principles of Quantum Mechanics II</td>
<td>3</td>
</tr>
</tbody>
</table>

No elective courses are required, but students are encouraged to select electives from Physics or Astronomy courses 300 level or above from the following list. Only the courses identified in the list below with the phrase “if not selected above” will be counted in the student’s major GPA.

VIII. Undergraduate Research Participation
The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.
A minimum of 55 credits in physics and astronomy courses, including:

**Physics Major with Astronomy Emphasis**

A minimum of 55 credits in physics and astronomy courses, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 541</td>
<td>Elementary Particles</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 551</td>
<td>Introduction to Solid State Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 651</td>
<td>Introduction to Solid State Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 670</td>
<td>Electron Microscopy Laboratory (if not selected above)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 103</td>
<td>Survey of Astronomy</td>
<td></td>
</tr>
<tr>
<td>or ASTRON 211</td>
<td>Principles of Astronomy</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 110</td>
<td>The Origin, Composition, and Structure of the Planetary Atmospheres</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 120</td>
<td>Geology of the Planets</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 517</td>
<td>Special Relativity</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 541</td>
<td>Elementary Particles</td>
<td></td>
</tr>
<tr>
<td>Or another course approved by the undergraduate advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 55

**Possible Course Substitutions for Students with Physics and Engineering Double Majors**

One of the following courses may be substituted for PHYSICS 270 or PHYSICS 370:

- PHYSICS 209
- PHYSICS 317

**Course Code**

- PHYSICS 209
- PHYSICS 317

**Course Title**

- Introduction to Computational Physics
- Analytical and Numerical Methods in Physics
- Optics
- Thermodynamics

**Credits**

- 3
- 3
- 4
- 3

**Select one of the following:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 670</td>
<td>Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 411</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 420</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 422</td>
<td>Electricity and Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 441</td>
<td>Introduction to Quantum Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 442</td>
<td>Introduction to Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 400</td>
<td>Astrophysics I</td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 401</td>
<td>Astrophysics II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a

1. PHYSICS 219 and PHYSICS 220 are strongly recommended; however, PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 courses may be substituted.
2. These courses are not offered every semester; check with the undergraduate advisor to plan for completing this requirement.
3. The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.
Physics, Minor

Physics is the study of matter and energy and their interactions, both in nature and under man-made conditions. Physics provides both the fundamental foundation for science and technology, and the framework for understanding the world around us and the universe itself.

A minor in physics provides an opportunity for students to complement their major course of study. The choice of advanced courses allows a student to gain a deeper understanding in specific areas of physics.

Requirements

A minor in physics requires 18 credits of Physics courses, of which 9 credits must be in courses at the 300 level or above taken in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. There is latitude in the choice of credits.

- Students majoring in engineering or computer science should consider PHYSICS 325 and PHYSICS 351.
- Science or math education majors should take PHYSICS 317, PHYSICS 325, and ASTRON 400.
- Math majors will find complementary subject matter in PHYSICS 411, (PHYSICS 420 and PHYSICS 422), and PHYSICS 517.

Students are required to consult with the undergraduate physics advisor (physics-ugadvisor@uwm.edu) when planning their minor programs of study.

Contact Information

Current Students contact the Department directly, physics-ugadvisor@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/physics/undergraduate/

Physics, MS

The Physics Department exhibits exceptional strength in several areas. We invite applications from able students interested in experimental and theoretical surface physics and condensed matter physics; in structural biophysics and protein dynamics and function; in quantum field theory, cosmology, relativistic astrophysics, and gravitational-wave/multimessenger astronomy; in medical imaging. The primary goal of our graduate education is the training of creative research scientists.

Our research in gravitational physics is in several areas: In gravitational-wave astronomy, we play a leading role in LIGO, extracting signals of gravitational-waves from the coalescence of binary neutron stars and black holes, as well as searching for electromagnetic counterparts. We play a leading role in the use of pulsars to measure gravitation waves from supermassive black holes. In relativistic astrophysics we have established limits on the spin and mass of rotating neutron stars, and develop computational techniques to model merging stars. Astronomy efforts include studying early galaxy formation and evolution, and phenomenology of neutron stars and white dwarfs.

Experimental work in condensed matter and surface physics includes electron microscopy, electron and x-ray diffraction, atomic force microscopy, infrared spectroscopy, synchrotron radiation, molecular beam epitaxy, and atomic layer deposition. Experimental work is also being done in the areas of low-temperature physics, unconventional superconductivity (including high Tc), heavy fermions, topological insulators, materials synthesis and floating zone single crystal growth, oxides, magnetism, ultrasonics, and neutron diffraction. These efforts are all aimed at creating and analyzing novel materials.

Theoretical work in condensed matter physics and surface physics includes research in quantum transport phenomena, superconductivity,
magnetism, novel states of matter, and first-principles electronic structure calculations.

Experimental work in biophysics includes advanced optical and electrical methods for probing protein-protein interactions and protein complex structure and dynamics in vivo. Other efforts are in structural biophysics, static and time-resolved macromolecular crystallography, and XFEL-based femtosecond crystallography. Molecular biophysics studies include protein mechano-chemistry and single-molecule force spectroscopy.

Theoretical and computational work in biophysics includes advanced algorithms for signal extraction in the presence of extreme noise and timing uncertainty (XFEL and cryo-electron microscopy data) for protein crystallography, biostructure, dynamics, and function.

Experimental and theoretical efforts in medical imaging revolve around image reconstruction using Radon transformations, and novel imaging modalities such as thermo/opto-acoustic tomography.

Graduate Minor in Physics
A doctoral student in another department wishing to minor in Physics must choose a minor professor from among the Physics Graduate Faculty. The student and the minor professor plan a program of study consisting of 9 to 12 graduate credits in Physics and complete a Graduate Minor Program Plan for the Physics Department files.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Letters of Recommendation. Three letters of recommendation are required from persons familiar with the applicant's academic work.
2. Graduate Record Examinations (http://uwm.edu/graduateschool/admission/#gre). Both the General Test and the Subject Test in Physics are strongly encouraged but are not required.
3. Undergraduate major in physics or related fields. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Option 1: Thesis Option
Minimum degree requirement is 30 graduate credits, 18 of which must normally be in physics and 12 of which may be in related fields. Of the 18 credits earned in the Department, at least 6 must be in physics courses numbered above 700, with the remainder in courses at least above 500;

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 515</td>
<td>Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 531</td>
<td>Principles of Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 532</td>
<td>Principles of Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 711</td>
<td>Theoretical Physics-Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 720</td>
<td>Electrodynamics I</td>
<td>3</td>
</tr>
</tbody>
</table>

Option 2: Non-Thesis Option
Minimum degree requirement is 30 graduate credits, 18 of which must normally be in physics and 12 of which may be in related fields. Of the 18 credits earned in the Department, at least 6 must be in physics courses numbered above 700, with the remainder in courses at least above 500; research, seminar, and independent study credits do not satisfy the 700 requirement.

<table>
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<tr>
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<tbody>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>PHYSICS 720</td>
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<td>3</td>
</tr>
</tbody>
</table>

* Not including research, seminar, and independent study

Comprehensive Examination
The student must pass a comprehensive written or oral examination. The non-thesis master's Oral Examination should evaluate the student's achievements in graduate courses and fulfillment of the goals of the student's program of study. In particular, students should be familiar with the materials in the "core" courses:

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</tr>
</tbody>
</table>

Additional Requirements
Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The newly admitted student is assigned to a temporary advisor.

Students in the master's program who are planning to terminate their physics studies with a master's degree should plan and prepare a program of study with the Department Master's Program Advisor.

Option 1: Thesis Option
Thesis
The student must write an acceptable thesis.

Comprehensive Examination
The student must pass a comprehensive oral examination, in part a defense of the thesis.
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**Admission Requirements**

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**Admission**

Applicant must meet Graduate School requirements plus departmental requirements as given for admission to the master's program. A master's degree is not a prerequisite for this PhD program.

**Reapplication**

A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

**Credits and Courses**

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. The student plans an individual program of studies in consultation with the major professor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics core courses</td>
<td></td>
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</tr>
<tr>
<td>Additional credits numbered 700-999</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Other courses and PHYSICS 990</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

* Not including courses 711, 720, 721, or 990. Physics 651 is included.

A student may elect to complete one of the following minor programs: a minor of 9 to 12 credits in a single department; a minor of 12 credits in two or more departments. Traditional fields for the minor are mathematics, other natural sciences, computer sciences and engineering. In planning a minor in a single department, the student is advised by the minor professor; in planning a minor in two or more departments, the student is advised by the major professor. The program of study is to be chosen with the major professor and the departmental academic graduate committee.

**Additional Requirements**

**Residence**

The student must meet minimum Graduate School residence requirements.
Written Qualifying Examination
Prior to taking the oral doctoral preliminary examination, the student must pass a written qualifying examination. The exam is designed to test a student's physics problem solving capabilities assuming a knowledge of physics equivalent to an advanced undergraduate at a premier institution. The exam is given at the start of the Fall and Spring semesters. Students have a maximum of 3 attempts to pass the exam and must take the exam each time that it is offered until passing the exam or exhausting the 3 allowed attempts.

Doctoral Preliminary Examination and Doctoral Proposal Hearing
The student must prepare a written proposal and pass an oral examination to qualify for formal admission to candidacy for the degree. The oral examination primarily seeks to determine the student's preparation for independent research and the suitability of the proposed dissertation program. The Examination must be taken within four years of enrollment into the physics doctoral program and must be passed within five years of enrollment into the program.

Dissertation
The candidate must present a dissertation reporting the results of an original and independent research investigation representing substantive creative contribution.

Dissertation Defense
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

Political Science
The Department of Political Science offers a comprehensive curriculum designed to provide a thorough understanding of politics while providing a foundation for careers in government, law, education, business, and other fields. In addition to courses on political ideas, behavior, and institutions at the local, state, national, and international levels, the department offers opportunities for students to participate in research projects, internship programs, scholarship competitions, study abroad, a political science honor society (http://uwm.edu/political-science/undergraduate/pi-sigma-alpha/), and a program in law studies.

The curriculum is divided into four areas of study:

American Politics
American politics involves the study of U.S. political institutions at the national level (e.g., Congress, Presidency, Judiciary), state and local government and politics, political parties, interest groups, policy making, elections and voting behavior, public opinion, public law and the judicial process, constitutional interpretation, and the field of public administration.

Comparative Politics
Comparative politics studies political systems of nations outside the United States, including those in Western and Eastern Europe, Latin America, Asia, the Middle East, Africa, and Russia.

International Relations
International relations focuses on American foreign policy, international organizations (e.g., the United Nations), international economics, war and peace, and international law.

Political Theory
Political theorizing means questioning the assumptions underlying both politics and political science. Courses in political theory are designed to help students understand political experiences as they are interpreted by those who are engaged in politics and also by those who study it. Political theory therefore includes the history of political ideas, the writings of major theorists, and theories of history and the social sciences.

Programs
- Political Science, BA (p. 1122)
- Political Science, MA (p. 1127)
- Political Science, Minor (p. 1128)
- Political Science, PhD (p. 1128)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ivan Ascher</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
<td></td>
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</tr>
<tr>
<td>Carol E. Baumann</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td>Georgetown University</td>
<td></td>
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</tr>
<tr>
<td>Robert J. Beck</td>
<td>Associate Professor, Associate Vice Chancellor</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natasha Borges Sugiyama</td>
<td>Associate Professor, Interim Director for Center for Latin American and Caribbean Studies</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
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</tr>
<tr>
<td>Eric C. Browne</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Maryland-College Park</td>
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</tr>
<tr>
<td>Kathleen Dolan</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Hawaii</td>
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</tr>
<tr>
<td>Marcus E. Ethridge</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Hawaii</td>
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<tr>
<td>Kennan Ferguson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Hawaii</td>
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</tr>
<tr>
<td>David C. Garnham</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
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</tr>
<tr>
<td>Brett W. Hawkins</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
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<tr>
<td>Uk Heo</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
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</tbody>
</table>
Political Science, BA

Political science is the study of governments, political processes, public policies and political behavior by groups or individuals and is an ideal major for students with a passion for current events.

At UWM, students take coursework from four broad areas of political science in order to obtain a well-rounded education in the field: American politics, international relations, comparative politics, and political theory. Along with exploring these substantive areas, students strengthen their research, writing, and critical thinking skills. With this background, students leave UWM ready to enter graduate school or the world of work in government, international organizations, campaigns, business, consulting, nonprofits, and many other industries. This broad major is available entirely online, or students can mix-and-match and take a some online and some traditional classes.

Many students find that a degree in Political Science aligns well with their interest in law and their plans to attend law school after college. We offer a large number of courses in constitutional law and legal practice in society, and students can focus their electives around these as part of the Law Studies option within the Political Science major. Students planning for law school also often participate in our law sports programs such as intercollegiate moot court and intercollegiate mock trial.

Internships are encouraged for all majors, and opportunities can be found locally as well as in Washington DC.

Since 1966, students from all UW System campuses and other universities have participated in the United Nations Summer Seminar (http://uwm.edu/political-science/undergraduate/u-n-summer-seminar/). This five-week, six-credit program is partially held at United Nations Headquarters in Manhattan. The four weeks in New York include special access to U.N. facilities and intensive interaction with over 40 experts representing governments and international organizations.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
</tbody>
</table>
Part A
 Achieve a grade of C or better in one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Or equivalent course

Part B
 Course designated as QL-B; may be completed through a major-specific course requirement

Arts
 Select 3 credits 3

Humanities
 Select 6 credits 6

Social Sciences
 Select 6 credits 6

Natural Sciences
 Select 6 credits (at least two courses including one lab) 6

UWM Foreign Language Requirement
 Complete Foreign Language Requirement through:
 - Two years (high school) of a single foreign language
 - Two semesters (college) of a single foreign language

UWM Cultural Diversity Requirement
 One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

II. Mathematics and Formal Reasoning
 To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
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<tr>
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<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete

College of Letters & Science Requirements

I. English Composition Requirement
 Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.
the BA, students must take one of the L&S approved courses. Not all of
the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement.
Language courses (including American Sign Language) other than
English taken in high school may be used to satisfy all or part of this
requirement. One year of high school language equates to one semester
of college work.

Completion of the L&S Language Requirement also satisfies the
university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://
catalog.uwm.edu/letters-science/approved-courses-international-
requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of
3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences
(SS), and Natural Sciences (NS/NS+); and a course with the Cultural
Diversity (CD/+ designation, L&S students must complete the Breadth
requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
</tbody>
</table>

Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list
of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to
select at least 6 credits worth of courses in each of the Humanities,
Social Science, and Natural Sciences areas that can satisfy both the
campus-wide General Education Requirements and the L&S Breadth
requirement.

** Students are advised to select a course that satisfies the Cultural
Diversity requirement as well as a Humanities or Social Science
breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least
a 2.0 GPA in all credits in the major attempted at UWM. In addition,
students must attain a 2.0 GPA on all major credits attempted, including
any transfer work. Individual departments or programs may require
higher GPAs for graduation. Some departmental majors require courses
from other departments. Contact your major department for information
on whether those credits will count as part of the major GPA. The College
requires that students must complete in residence at UWM at least 15
credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience
approved by the L&S faculty. A list of courses satisfying the research
requirement in each major can be found here (http://catalog.uwm.edu/
letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least
a 2.0 GPA in all credits in the minor attempted at UWM. In addition,
students must attain a 2.0 GPA on all minor credits attempted, including
any transfer work.

Political Science Major Requirements
Majors must attain a 2.0 GPA in all political science courses, including
any transfer work, and a 2.0 GPA in political science courses taken
at UWM. Majors are required to complete a minimum of 30 credits in
political science, of which at least 15 must be in upper-division courses
(numbered 300 or above) taken in residence at UWM. The following
courses must be included among those taken for major credit:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Introductory Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POL SCI 103</td>
<td>Introduction to Political Science</td>
</tr>
<tr>
<td></td>
<td>or POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
</tr>
<tr>
<td></td>
<td>Methods Requirement</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>POL SCI 203</td>
<td>Introduction to Political Science Research</td>
</tr>
<tr>
<td></td>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
</tr>
<tr>
<td></td>
<td>POL SCI 392</td>
<td>Survey Research</td>
</tr>
<tr>
<td></td>
<td>Political Area Requirements</td>
<td>Select at least one course beyond the 100 level in each of the following four areas of political science:</td>
</tr>
<tr>
<td></td>
<td>American Politics</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
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<td></td>
</tr>
<tr>
<td>POL SCI 150</td>
<td>Multicultural America: Minority Voting Rights and Representation</td>
<td></td>
</tr>
<tr>
<td>POL SCI 210</td>
<td>American Public Policy</td>
<td></td>
</tr>
<tr>
<td>POL SCI 213</td>
<td>Urban Government and Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 215</td>
<td>Ethnicity, Religion and Race in American Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 216</td>
<td>Environmental Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 250</td>
<td>Law and Society</td>
<td></td>
</tr>
<tr>
<td>POL SCI 287</td>
<td>Topics in American Politics:</td>
<td></td>
</tr>
<tr>
<td>POL SCI 388</td>
<td>Latino Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 405</td>
<td>State Government:</td>
<td></td>
</tr>
<tr>
<td>POL SCI 411</td>
<td>Constitutional Law: Government Powers and Federalism</td>
<td></td>
</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td></td>
</tr>
<tr>
<td>POL SCI 415</td>
<td>The Politics of Race, Ethnicity and Immigration</td>
<td></td>
</tr>
<tr>
<td>POL SCI 416</td>
<td>Judicial Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 417</td>
<td>The Supreme Court</td>
<td></td>
</tr>
<tr>
<td>POL SCI 419</td>
<td>Constitutional Interpretation</td>
<td></td>
</tr>
<tr>
<td>POL SCI 421</td>
<td>Party Politics in America</td>
<td></td>
</tr>
<tr>
<td>POL SCI 425</td>
<td>Women in Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 426</td>
<td>Congressional Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 444</td>
<td>Politics and the Bureaucracy</td>
<td></td>
</tr>
<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
<td></td>
</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 467</td>
<td>Elections and Voting Behavior</td>
<td></td>
</tr>
<tr>
<td>POL SCI 471</td>
<td>Problems in Law Studies:</td>
<td></td>
</tr>
<tr>
<td>POL SCI 473</td>
<td>Public Opinion</td>
<td></td>
</tr>
</tbody>
</table>

### Comparative Politics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 300</td>
<td>Western European Politics</td>
</tr>
<tr>
<td>POL SCI 301</td>
<td>British Politics</td>
</tr>
<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
</tr>
<tr>
<td>POL SCI 312</td>
<td>The Politics of Authoritarian Regimes</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 320</td>
<td>Politics of Developing Countries</td>
</tr>
<tr>
<td>POL SCI 321</td>
<td>Politics of Revolution in Developing Nations</td>
</tr>
<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
</tr>
<tr>
<td>POL SCI 326</td>
<td>Brazilian Politics and Society</td>
</tr>
<tr>
<td>POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
</tr>
<tr>
<td>POL SCI 329</td>
<td>African Politics</td>
</tr>
<tr>
<td>POL SCI 333</td>
<td>Seminar in Comparative Politics:</td>
</tr>
<tr>
<td>POL SCI 334</td>
<td>German Politics and the New Europe</td>
</tr>
<tr>
<td>POL SCI 335</td>
<td>Comparative Political Systems</td>
</tr>
<tr>
<td>POL SCI 341</td>
<td>Politics and Markets in Pacific-Rim Countries:</td>
</tr>
<tr>
<td>POL SCI 368</td>
<td>Gender and Politics in Developing Nations</td>
</tr>
<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
</tr>
</tbody>
</table>

### International Politics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>POL SCI 372</td>
<td>Poverty and Politics:</td>
</tr>
<tr>
<td>POL SCI 374</td>
<td>Health, Wealth, and Democracy</td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
</tr>
<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
</tr>
<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
</tr>
<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations:</td>
</tr>
<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
</tr>
<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
</tr>
<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
</tr>
<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
</tr>
<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
</tr>
<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
</tr>
<tr>
<td>POL SCI 423</td>
<td>Conduct of American Foreign Affairs</td>
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</tbody>
</table>

### Political Theory

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>POL SCI 255</td>
<td>Great Issues of Politics</td>
</tr>
<tr>
<td>POL SCI 281</td>
<td>Classics of Political Theory</td>
</tr>
<tr>
<td>POL SCI 361</td>
<td>History of International Political Thought</td>
</tr>
<tr>
<td>POL SCI 381</td>
<td>The Development of Western Political Thought</td>
</tr>
<tr>
<td>POL SCI 382</td>
<td>Modern Political Thought</td>
</tr>
<tr>
<td>POL SCI 384</td>
<td>The Philosophy of Law</td>
</tr>
<tr>
<td>POL SCI 385</td>
<td>American Political Thought</td>
</tr>
<tr>
<td>POL SCI 386</td>
<td>Contemporary Political Theory</td>
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<tr>
<td>POL SCI 389</td>
<td>Politics and Philosophy.</td>
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### Research Experience

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 312</td>
<td>The Politics of Authoritarian Regimes</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
</tr>
<tr>
<td>POL SCI 326</td>
<td>Brazilian Politics and Society</td>
</tr>
<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations:</td>
</tr>
<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
</tr>
<tr>
<td>POL SCI 361</td>
<td>History of International Political Thought</td>
</tr>
<tr>
<td>POL SCI 368</td>
<td>Gender and Politics in Developing Nations</td>
</tr>
<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
</tr>
<tr>
<td>POL SCI 408</td>
<td>The American Presidency</td>
</tr>
<tr>
<td>POL SCI 415</td>
<td>The Politics of Race, Ethnicity and Immigration</td>
</tr>
<tr>
<td>POL SCI 417</td>
<td>The Supreme Court</td>
</tr>
<tr>
<td>POL SCI 425</td>
<td>Women in Politics</td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
</tr>
<tr>
<td>POL SCI 467</td>
<td>Elections and Voting Behavior</td>
</tr>
</tbody>
</table>

### Electives

Select 9 credits

### Total Credits

30
Course of Study: Law Studies Option

Students may emphasize the study of law within the major by completing, in conjunction with or in addition to all of the requirements outlined above, the courses listed below as part of the 30 credits required for the major.

Political Areas

- The following meets the American politics requirement: POL SCI 250, POL SCI 411, POL SCI 412, POL SCI 419, POL SCI 452, or POL SCI 464
- The following qualifies as political theory: POL SCI 384/PHILOS 384
- The following is an international politics course: POL SCI 316

Law Studies Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POL SCI 250</td>
<td>Law and Society</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI/PHILOS 384</td>
<td>The Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 416</td>
<td>Judicial Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 417</td>
<td>The Supreme Court</td>
<td></td>
</tr>
<tr>
<td>POL SCI 419</td>
<td>Constitutional Interpretation</td>
<td></td>
</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 471</td>
<td>Problems in Law Studies:</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors and High Honors in the Major

Departmental honors are awarded upon graduation to students who achieve a 3.500 GPA overall in all UWM courses attempted, in their political science major courses, and in upper-division political science courses. Students meeting these GPA requirements will be slated automatically for graduating with honors in the major.

Students who meet the GPA requirement and wish to be considered for departmental high honors should request that the faculty member supervising her/his substantial research paper nominate her/him for high honors. The supervising faculty member will decide if the student should be recommended to the high honors committee, which is composed of three political science faculty members. The committee will determine if the quality of the nominee’s paper is sufficient to earn the high honors designation and, if so, will bestow the high honors accordingly. Note that a student interested in receiving high honors must contact a Political Science faculty member to be considered; high honors are not bestowed automatically.

Questions about honors designations can be directed to any of the Political Science faculty advisors.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude · 3.500 or above; Magna Cum Laude · 3.650 or above; Summa Cum Laude · 3.800 or above.
Political Science, MA

The Department of Political Science offers graduate programs of study in political science with concentrations in five fields: American politics, comparative politics, international relations, political theory, and public administration and public policy.

The master's program is designed to provide students with a basic grounding in the scope and methodology of the discipline, while at the same time allowing maximum flexibility in developing a program of study that will meet students' career objectives. It is recommended that students preparing themselves for PhD work emphasize empirical theory, quantitative skills and strategies and techniques of conducting research. Students may select coursework to help them prepare for such career fields as governmental service, public and private education, community service, and private industry. In developing an appropriate and coherent program of study, each graduate student works closely with the major professor and committee of advisors.

The Department accommodates the master's student who attends part time by scheduling sufficient graduate-level courses in the late afternoons and evenings to enable the student to earn a master's degree through part-time attendance.

In the PhD program the departmental emphasis is on conceptual and quantitative work. The Department requires that the student be broadly trained and accordingly encourages each student to take advantage of offerings in related disciplines to strengthen expertise in political change. The graduate of the program is qualified for a career in university teaching, in government service or in the private sector where the analytical skills and knowledge of the social scientist are required. Graduate degrees are conferred on the basis of a level of achievement which is acquired by independent reading and research as well as by taking courses. They are never conferred solely on the basis of prescribed courses and residency requirements.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major or substantial work in the field of political science.
2. Undergraduate grade point average of at least 3.0 (4.0 scale).
3. Three letters of recommendation from persons familiar with applicant's scholastic ability and achievements.
4. Submission of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores. Applications will not be considered until scores are received.

Credits and Courses

Minimum degree requirement is 30 graduate credits, all of which must be taken at the 700 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Core Courses on scope and method of political inquiry</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>POL SCI 700</td>
<td>Scope and Methods of Political Science</td>
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<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>Other POL SCI courses</td>
<td>Up to 6 credits in related field</td>
<td>15</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

A student must enroll for at least 3 credit hours of POL SCI 990 for final preparation of the Master's Paper.

Additional Requirements

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The incoming student is advised by the chair of the departmental Graduate Committee; as the student develops specialized interests within the discipline, the student selects a major professor from within that area of specialization.

Master's Paper

A formal thesis is not required. However, each student shall prepare and defend orally a paper that demonstrates conceptual ability and research competence in some recognized area (sub-field) of political science. It is expected that the master's paper will be prepared in a scholarly fashion, normally conforming to the format characteristic of journal articles published in the chosen area of study. A statement setting forth additional guidelines and criteria of evaluation will be made available.

For full-time students it is expected that the master's paper will be defended prior to the completion of four semesters (two years) of graduate work. Consequently, the Department encourages students to choose paper topics for graduate seminars that may serve as the basis for the master's paper. Postponement of the oral defense of the master's paper beyond four semesters requires the approval of the Graduate Committee.

Comprehensive Examination

An oral defense of the master's paper is required. Master's papers will be defended before a three-person committee composed of one of the student's advisors and two other faculty members selected by the chair of the Department in consultation with the student and the advisor.

The committee will be selected at least one full semester prior to anticipated submission of the master's paper. The student must obtain committee approval of the research topic and methodology immediately following the selection of the committee.
The Department accommodates the master's student who attends part time by scheduling sufficient graduate-level courses in the late afternoons and evenings to enable the student to earn a master's degree through part-time attendance.

In the PhD program the departmental emphasis is on conceptual and quantitative work. The Department requires that the student be broadly trained and accordingly encourages each student to take advantage of offerings in related disciplines to strengthen expertise in political change. The graduate of the program is qualified for a career in university teaching, in government service or in the private sector where the analytical skills and knowledge of the social scientist are required. Graduate degrees are conferred on the basis of a level of achievement which is acquired by independent reading and research as well as by taking courses. They are never conferred solely on the basis of prescribed courses and residency requirements.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Master's degree in political science.
2. Evidence of a high standard of achievement in graduate work at the master's level.
3. Submission of Graduate Record Examination scores, except for applicants receiving a MA degree from UWM.

All applicants for admission to the PhD program will be evaluated on the basis of their prior academic record, scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre), and three letters of recommendation.

Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, 27 of which must be earned in residence at UWM at the doctoral level.

Distribution Requirement

To ensure broad exposure to the discipline, students must take a minimum of three courses outside of their prelim fields, at least two of which must be in a single field. Courses used to satisfy this requirement must be taken from the departmental offerings in the five substantive fields described above. Courses that bridge two or more fields of study cannot be used to satisfy this requirement if one of those fields falls within a student's prelim areas.

All courses taken to satisfy the distribution requirement must be political science courses numbered 700 or above.

Core Research Requirements

Attainment of the PhD denotes a high level of competence in research skills relevant to the discipline of political science. Thus, all students must complete the core departmental research seminars. Since skills
learned in these courses are important elements in dealing successfully with subject matter presented in other seminars, students should enroll in these seminars immediately upon entering the graduate program.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tr>
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<td>Scope and Methods of Political Science</td>
<td>12</td>
</tr>
<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 935</td>
<td>Seminar in Advanced Political Science Methodology</td>
<td></td>
</tr>
</tbody>
</table>

**Courses in two prelim fields**

| Minimum three courses outside prelim fields (At least two in a single field) | 9       |
| Total Credits                                                              | 54-56   |
| Research and Thesis                                                        | 1-3     |
| Total Credits                                                              | 54-56   |

1 Students using a course from outside the Department of Political Science to satisfy this requirement may enroll on a “Credit/No Credit” basis, where the grade of “Credit” demonstrates satisfactory completion of the requirement. Upon successful petition to the departmental Graduate Committee, a student may gain exemption from this requirement, based on coursework completed in the five years prior to entering the graduate program. Students who receive this exemption must still complete at least 27 credits in residence. Credits earned to meet this requirement may count toward the 54 credits of work required for the PhD if they carry graduate credit and are taken for a grade.

In some cases, competence in foreign language skills is necessary for significant disciplinary research. Students may fulfill the research requirements beyond the above seminars through demonstration of a reading knowledge of one foreign language. Competence is established through examination, by an appropriate UWM language department. The student must perform at a level equivalent to six semesters of college-level work in the language.

**Additional Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The incoming student is advised by the chair of the departmental Graduate Committee; as that student develops specialized interests within the discipline, the student selects a major professor from within that area of specialization.

**Areas of Concentration**

In consultation with the major professor students plan a program of studies through which a high level of competence is gained in two substantive fields (hereafter referred to as “major” or “prelim” fields). The department offers five fields of study:

- American Politics
- Comparative Politics
- International Relations
- Political Theory
- Public Administration and Public Policy

Competence in these fields is demonstrated by a written and oral preliminary examination. In addition to the fields listed above, students may petition the graduate committee to be examined in an alternative field. This must be a coherent field that is not covered by one of the existing prelim areas.

**Evaluation of Student Progress**

The Department annually evaluates the progress of each student, in order to identify areas of strength and weakness as an aid to the student and the student's major professor in planning the program of study. This evaluation is also used to determine whether or not the student should be encouraged to pursue further graduate work.

**Residence**

The student must meet minimum Graduate School residence requirements.

**Doctoral Preliminary Examination**

The student must pass a doctoral written and oral preliminary examination covering both of his or her fields of study. The preliminary exam is taken during the semester following the completion of coursework.

**Dissertation**

The candidate, working under the supervision of the major professor and the candidate's dissertation committee, must write an acceptable dissertation. A dissertation prospectus must be written during the last semester of coursework and will be defended at the end of the following semester as part of the preliminary examination. Guidelines for preparation of the dissertation are available from the Graduate School.

**Dissertation Defense**

The candidate must, as a final step toward the degree, pass an oral examination in defense of the dissertation. The candidate who does not successfully defend a thesis within five years of admission to candidacy may be required to take another comprehensive preliminary examination and be readmitted to candidacy.

**Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

**Pre-Professional Programs**

Pre-Professional Programs refers to any program that prepares students for professional graduate school such as a medical school, law school, or dental school.

Specialized advisors are available for each of the programs listed on the Programs tab (p. 1130) of this page. These advisors help students with course planning and other advice related to the elements needed to be a successful applicant to these competitive graduate programs. Depending on the graduate program, students will need to dedicate time and effort during college to obtain the necessary hands-on experience through volunteer work, internships, or part-time jobs. Early planning is essential for anyone who is considering a graduate professional school, and it is advised that students meet with the pre-professional advisor beginning in freshman year.
Programs
- Other Pre-Professional Health Study (p. 1130)
- Pre-Anesthesiologist Assistant (p. 1130)
- Pre-Chiropractic (p. 1131)
- Pre-Dentistry (p. 1132)
- Pre-Law (p. 1133)
- Pre-Medicine (p. 1133)
- Pre-Optometry (p. 1134)
- Pre-Pathologist Assistant (p. 1135)
- Pre-Pharmacy (p. 1136)
- Pre-Physician Assistant (p. 1137)
- Pre-Podiatry (p. 1138)
- Pre-Veterinary Medicine (p. 1138)

Other Pre-Professional Health Study
Students interested in chiropractic medicine, optometry, physician assistant, and podiatry careers can fulfill the admission requirements of these professional programs in the College of Letters and Science. Information concerning these requirements and the admission tests for the professional schools is available in the Student Academic Services office. Call (414) 229-4654 to schedule an appointment with the appropriate advisor.

Pre-Anesthesiologist Assistant
An anesthesiologist assistant holds a similar role to physician assistants who aide doctors. Anesthesiologist assistants specifically help anesthesiologists during pre-op, surgery, and post-op. Common job duties include taking health histories from patients, performing physical exams, diagnostic testing, catheterization, administering and monitoring anesthesia, post-op monitoring, life support, documentation, and reporting.

To become an anesthesiologist assistant, students must complete a four-year bachelor's degree with a rigorous science and math curriculum that is very similar to a pre-med path. After college, students must be admitted to an anesthesiologist assistant master's program which takes an additional two years to complete. The master's program includes advanced course work in physiology, pharmacology, anatomy and biochemistry and how that knowledge is applied when working with the cardiovascular, respiratory, renal, nervous and neuromuscular systems of the human body. In addition, clinical training is provided within the master's program that includes training and practice in patient care.

Admission to these graduate programs is very competitive. There are only 11 accredited programs in the U.S. and most schools bring in fewer than 20 students per year. Typically students will have earned a 3.6 GPA or higher while in college, and will have scored above the 70th percentile on the standardized test for graduate school. Some anesthesiologist assistant schools require the MCAT exam, while others require the GRE, either of which is usually taken the latter half of junior year.

In addition to strong academic credentials, most anesthesiology assistant programs will require students to have completed a number of hours of job shadowing. Other related healthcare experience through volunteer work, part-time jobs, or research internships can also enhance a student’s application to anesthesiologist assistant school. Students who declare an intention to take a pre-anesthesiologist assistant track will be assigned an advisor who specializes in advising pre-health students and can assist with finding these types of opportunities.

Anesthesiologist assistant schools do not require any specific major but do expect that students will have taken the necessary preparatory math and science coursework needed to succeed in their program. This includes multiple courses in chemistry, organic chemistry, and biochemistry; multiple classes in biological sciences including genetics and anatomy; math, generally through the first semester of calculus; and statistics. Some physics is also required. Because of the heavy emphasis on biology and chemistry, many students choose to major in biology, chemistry, or biochemistry, but that is not a requirement. As long as a student takes the required preparatory coursework, he/she can major in any subject area.

Because science coursework is very sequential and must be taken in a specific order, students interested in pre-anesthesiologist assistant should express their intentions early so that the advisor can help the student with course selection. Taking the right courses beginning in freshman year is vital to staying on track and avoiding a delay in graduation. A fact sheet (https://panthers.sharepoint.com/:b/s/LS/Ed9vPiCC3u5PuFNVO-b3STkBbim_Cp40SsAqI/NdAegSD4A/) is available with more detailed curriculum information.

Requirements
Entrance to an anesthesiologist assistant program is very competitive – there are only 12 programs in the United States. Students are advised to work closely with the advisor for the pre-anesthesiologist assistant program to ensure they are able to present the strongest possible application packet with exceptional grades, standardized test scores, and experiential learning.

Nearly all anesthesiologist assistant schools require that applicants take the Medical College Admission Test (MCAT). Students normally should arrange to take this test at the end of their junior year. The advisor can provide information regarding the administration of this test.

Minimal coursework preparation while in college would include:
- One year of English
- Math through one semester of calculus
- Two to two and one-half years of chemistry, including inorganic, organic, and biochemistry
- Two years of biology, including anatomy and physiology
- One year of physics

Effective 2015, the MCAT added a social/behavioral science component and additional chemistry. To be well prepared for the MCAT, students are advised to complete PSYCH 101, SOCIOL 101, and PH 101 (as well as other courses selected in consultation with the pre-anesthesiologist assistant advisor) and CHEM 501. Other classes, such as Communication, are more frequently being strongly recommended by various graduate healthcare programs.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
</tbody>
</table>
BIO SCI 325 Genetics 4
BIO SCI 383 General Microbiology 4
CHEM 102 General Chemistry 5
CHEM 104 General Chemistry and Qualitative Analysis 5
CHEM 343 Organic Chemistry 3
CHEM 344 Organic Chemistry Laboratory 2
CHEM 345 Organic Chemistry 3
CHEM 501 Introduction to Biochemistry 3
PHYSICS 120 General Physics I (Non-Calculus Treatment) 4
PHYSICS 121 General Physics Laboratory I (Non-Calculus Treatment) 1
PHYSICS 122 General Physics II (Non-Calculus Treatment) 4
PHYSICS 123 General Physics Laboratory II (Non-Calculus Treatment) 1

Although the courses listed above are mandatory for admission to almost all anesthesiologist assistant schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology, chemistry, or biochemistry in order to gain admission to anesthesiologist assistant school, though many choose to do so.

Contact Information
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Pre-Chiropractic

The U.S. Bureau of Labor Statistics projects an above average increase in employment opportunities for chiropractors. As alternative medicine becomes more acceptable and the population ages, it is expected that the profession will grow by 28 percent from 2010 to 2020. Students can expect to spend three-and-a-half years in chiropractic school after the completion of four years of college.

Chiropractors diagnose and treat patients with health problems related to the body’s muscular, nervous, and skeletal system, particularly the spine. They view their patients as an integrated being and do not use drugs or surgery. The chiropractic theory states that there are many factors that affect our health, including heredity, type of exercise, environmental surroundings, dietary habits and rest.

Common tasks for a chiropractor include patient examination, analysis of posture and spine position, spinal and joint adjustments, application of heat and ice treatments, and patient lifestyle counseling. Some chiropractors use acupuncture, massage therapy, and ultrasound if they have received such training.

Please review the Pre-Chiropractic Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Chiropractic) for information about suggested undergraduate courses to prepare for chiropractic school, career outlook for chiropractors, and options for your major. Pre-Chiropractic is not a major, and students must still choose a major. Since most of the pre-requisites necessary for application to Chiropractic school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-chiropractic advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to Chiropractic school. A significant number of volunteer or work hours is often a requirement for application to Chiropractic school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

UWM partners closely with three chiropractic colleges: Palmer College of Chiropractic in Davenport, Iowa; Cleveland Chiropractic College in Overland Park, Kansas; and Northwestern Health Sciences University in Bloomington, Minnesota. UWM students who meet certain academic standards may qualify for guaranteed admission at these institutions. Students are encouraged to work closely with the pre-chiropractic advisor in order to plan early for this transition and to understand the specific requirements of these schools. There are no chiropractic graduate programs in the State of Wisconsin.

A suggested timeline is also available from the advisor to help you plan preparatory activities throughout your four years in college.

Requirements

Entrance to a chiropractic program is very competitive. Although specific admission requirements may vary among programs, the following minimum standards generally apply:

- 90 completed undergraduate credits
- Overall GPA of 3.00 or higher
- 30+ credits at the 300+ level
- 24 credits in the natural sciences, half with lab work

Other common course requirements include (but are not limited to) the following: anatomy and physiology, cell biology, biochemistry, math statistics, nutrition, kinesiology, genetics, psychology, microbiology, immunology, and toxicology. Due to the variance in admission requirements, it is strongly recommended that students consult with the pre-chiropractic advisor every semester.

Recommended coursework includes:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I &amp; Foundations of Biological Sciences II</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry &amp; General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>8</td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>Organic Chemistry</td>
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<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
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<td>PHYSICS 123</td>
<td>General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>10</td>
</tr>
</tbody>
</table>

Option 1:
Pre-Dentistry

The U.S. Bureau of Labor Statistics projects faster than average growth in dentistry, particularly as more links are identified between oral health and overall health. Students can expect to spend four years in dental school after the completion of four years of college.

If you are considering dental school, UWM will provide you with a solid foundation to help you reach your goal. There are 64 dental schools in the United States, only one of which is in Wisconsin at Marquette University. The application process is competitive so it is important that pre-dental students begin careful planning of their academic career during the freshman year. Requirements vary among dental schools, making early planning in consultation with a pre-dental advisor vital.

Dental schools require a minimum of 90 completed college credits. It is possible, though highly rare, to enter dental school without earning a bachelor’s degree. The vast majority of students complete their bachelor’s degree before proceeding to dental school.

It is recommended that students obtain some hand-on exposure to the dental profession prior to dental school, either through volunteer or internship opportunities, or paid work at a dental practice or community dental clinic.

Please review the Pre-Dental Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Dental) for information about suggested undergraduate courses to prepare for dental school, options for your major, and the career outlook for dentists. Pre-Dental is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to dental school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-dental advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to dental school. A significant number of volunteer or work hours is often a requirement for application to dental school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

A suggested timeline is also available from the advisor to help you plan preparatory activities throughout your four years in college.

Requirements

Most schools of dentistry require a minimum of three years of undergraduate work, however, it is becoming less common for students to leave college without finishing their bachelor’s degree.

The 90 credits required for admission to most schools of dentistry include the following courses:

- 1 year of English;
- 2-2.5 years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry;
- 1 year of biology (more is advised); and
- 1 year of physics.

Most dental schools require mathematics at least through pre-calculus. All science courses must include laboratory work. In addition, students are advised to take elective credits to ensure a broad liberal arts education.

Students must achieve satisfactory scores on the Dental Admission Test (DAT) to be a competitive applicant for dental school. The Pre-Dental Advisor can provide information regarding the administration of this test.

Science Courses That Satisfy Dental School Admission Requirements

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<thead>
<tr>
<th>Code</th>
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Chemistry

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Physics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
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</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
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</tr>
<tr>
<td>PHYSICS 124</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 214</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Statics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 221</td>
<td>Dynamics and Waves</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 222</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 223</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 224</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 225</td>
<td>Statics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 226</td>
<td>Dynamics and Waves</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 227</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 228</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 229</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 230</td>
<td>Statics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 231</td>
<td>Dynamics and Waves</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 232</td>
<td>Electricity and Magnetism</td>
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</tr>
<tr>
<td>PHYSICS 233</td>
<td>General Physics</td>
<td>4</td>
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<tr>
<td>PHYSICS 234</td>
<td>Physical Science</td>
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<tr>
<td>PHYSICS 235</td>
<td>Statics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 236</td>
<td>Dynamics and Waves</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 237</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 238</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 239</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 240</td>
<td>Statics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 241</td>
<td>Dynamics and Waves</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 242</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 243</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 244</td>
<td>Physical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 245</td>
<td>Statics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 246</td>
<td>Dynamics and Waves</td>
<td>3</td>
</tr>
</tbody>
</table>
Two factors play primary roles in determining admission to law schools:

- academic performance as measured by the grade point average, and
- score on the LSAT

The quality and rigor of the undergraduate program also will be considered. Minority group students are encouraged to see the pre-law advisor about making application to the Council on Legal Education Opportunity (CLEO) summer institutes.

Please review the Pre-Law Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Law) for information about suggested experiential opportunities available to UWM students, career outlook for lawyers, and options for your major.

Pre-Medicine

The U.S. Bureau of Labor Statistics projects shortages across health care professions, including physicians. Some specialties, including primary care, will face severe shortages in the next five to twenty years. To practice medicine, further education and training are required, ranging from 4 to 8 years of additional schooling and training after college.

If you are considering medical school after college, UWM will provide you with an excellent foundation to help you reach your goal. Admission to medical school is a highly competitive process, and students must demonstrate very strong academic performance as well as provide evidence that they have engaged in health-related work experiences to meet the rigorous admission standards of medical school. UWM graduates have consistently been admitted to medical schools at a rate equal to or greater than the national average; many UWM Pre-Medical students have gone on to attend top-ranked medical schools and have built promising careers in different medical specialties.

Medical schools do not require any specific major. What they do expect, however, is that students will have taken the necessary preparatory science classes to prepare for the demands of medical school. Because of the number of biology and chemistry classes that need to be taken, most students choose to major in biology, chemistry, or biochemistry, but this is not a requirement. As long as a student takes the required coursework, he/she can major in any subject area. The Pre-Medical Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Med) outlines the courses that medical school expects students to take during college.

Many individuals feel a calling to the medical profession after they have graduated and been working in another profession. Individuals in this situation who did not major in a science field while in college or who have low grades in previous science education will maximize their opportunity to become an admissible medical school candidate by re-taking science courses or by returning to school for a full major in a related-science.

A significant number of volunteer or work hours is also often a requirement for application to medical school so it is important to work with the Pre-Medical advisor beginning in freshman year or upon entry to the certificate program in order to plan all needed activities into your college career.

Requirements

The application process for medical school is highly competitive. Students are advised to work closely with the pre-med advisor to ensure they are able to present the strongest possible application packet for medical school with exceptional grades, standardized test scores, and experiential learning.

Nearly all medical schools require that applicants take the Medical College Admission Test (MCAT). Pre-Medical students normally should...
arrange to take this test at the end of their junior year. The Pre-Medical advisor can provide information regarding the administration of this test.

Most medical schools consider the following as minimal preparation for admission:

- One year of English;
- mathematics at least through pre-calculus;
- Two to two-and-a-half years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry;
- One year of biology (more is advised); and
- One year of physics.

For most medical schools, science courses must include laboratory work.

Effective 2015, the MCAT added a social/behavioral science component and additional chemistry. To be well prepared for the MCAT, students are advised to complete PSYCH 101, SOCIOl 101, and PH 101 (as well as other courses selected in consultation with the premed advisor) and CHEM 501. Other classes, such as Communication, are more frequently being strongly recommended or required by various medical schools.

Some medical schools specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, Pre-Medical students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly. A list of all medical college admission requirements is located in the College advising office.

**Science Courses that Satisfy Medical School Admission Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>One advanced course in Biological Sciences with lab</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry (required at UW-Madison Medical School)</td>
<td>3</td>
</tr>
</tbody>
</table>

Math (required at the Medical College of Wisconsin) | 4 |

Select one of the following options: 10

**Option 1:**

PHYSICS 120 & PHYSICS 121
General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)

**Option 2:**

PHYSICS 209 & PHYSICS 214
Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)

PHYSICS 210 & PHYSICS 215
Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)

PHYSICS 219
Physics I: Calculus-Based, Studio Format

PHYSICS 220
Physics II: Calculus-Based, Studio Format

Statistics: Any statistics course (required at UW-Madison Medical School) 3

Total Credits 50-51

Although the courses listed above are mandatory for admission to almost all American medical schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology, chemistry, or biochemistry in order to gain admission to medical school, though many choose to do so.

**Contact Information**

Current Students contact the Pre-Med Advisor Patty Cobb, pacobb@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs/?discipline=Pre-Med

**Pre-Optometry**

Employment of optometrists is expected to grow over the next decade as the population ages, but it is still a small and competitive profession. Optometry school requires four years of additional schooling after college.

Undergraduate preparation for the study of optometry requires a strong foundation in science and mathematics. UWM offers all of the prerequisites needed to apply to one of the 19 accredited optometry programs in the United States. There are no optometry programs in Wisconsin; the closest one is in Chicago. Although it is possible to enter an optometry program after completing the necessary science and math courses but before earning the bachelor's degree, it is a highly-rare situation. The majority of students accepted into optometry programs have completed their bachelor's degree.

Please review the Pre-Optometry Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Optometry) for information about suggested undergraduate courses to prepare for optometry school, experiential opportunities available to UWM students, career outlook for optometrists, and options for your major. Pre-Optometry is not a major, and students must still choose a major. Since most of the pre-requisites necessary for application to optometry school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-optometry advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to optometry school. A significant number of volunteer or work hours is often a requirement for application to optometry school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

**Requirements**

Entrance to an optometry program is very competitive. Applicants must take the Optometry Admission Test (OAT). The OAT is a standardized
examination designed to measure general academic ability and comprehension of scientific information. At least one year of college education, which should include courses in biology, general chemistry, organic chemistry, and physics, is required prior to taking the OAT. Most students, however, elect to complete two or more years of college prior to taking the exam in order to be better prepared.

Due to the variance in admission requirements, it is recommended that students consult with the Pre-Optometry Advisor every semester.

Although specific admission requirements may vary among programs, recommended coursework includes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td>8</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I and Anatomy and Physiology II</td>
<td>8</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Select a Microbiology course</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following options:</td>
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<td>10</td>
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<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
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</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
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</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>Select a Calculus course</td>
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<td></td>
</tr>
<tr>
<td>Select a Statistics course</td>
<td></td>
<td></td>
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<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>47</td>
</tr>
</tbody>
</table>

Other common course requirements include, but are not limited to and may vary by program: anatomy and physiology, cell biology, molecular biology, and immunology.

**Contact Information**

Current Students contact the Pre-Optometry Advisor Ian McLaughlin, mclaughi@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Pre-Optometry

**Pre-Pathologist Assistant**

Pathologists’ assistant is a small but growing career track for students interested in the medical field, specifically pathology. Similar to how a physician assistant helps doctors, pathologists’ assistants help pathologists with the tasks of their job. Duties may include gross examination and description of surgical specimens, assistance with intraoperative consultations, autopsies, laboratory management, data compilation and reporting, research, and inventory and lab maintenance according to industry standards. A pathologists’ assistant can be found working in community and university hospitals, private laboratories, medical schools, morgues, and medical examiner offices.

The pathway to becoming a pathologists’ assistant includes a four-year undergraduate (bachelor’s) degree, followed by a two-year graduate program that includes both classroom education in medicine and pathology as well as clinical training. Admission to these graduate programs is very competitive, and there are only 13 pathologists’ assistant master’s programs in the U.S. Typically students will have earned a 3.6 GPA or higher while in college, and will have scored above the 70th percentile on the standardized test for graduate school. Some pathologists’ assistant schools require the MCAT exam, while others require the GRE, either of which is usually taken the latter half of junior year.

In addition to strong academic credentials, pathologists’ assistant programs will be looking to see whether you have accumulated significant experience related to pathology while in college as part of their admissions process. This can include internships, lab work, related research projects, job shadowing, or part-time jobs. Students who declare an intention to take a pre-pathologists’ assistant track will be assigned an advisor who specializes in advising pre-health students and can assist with finding these types of opportunities.

Pathologists’ assistant schools do not require any specific major but do expect that students will have taken the necessary preparatory math and science coursework needed to succeed in their program. This includes multiple courses in chemistry, organic chemistry, and biochemistry; multiple classes in biological sciences including genetics and anatomy; math, generally through the first semester of calculus; and statistics. For this reason, many students choose to major in biology, chemistry, or biochemistry, but that is not a requirement. As long as a student takes the required preparatory coursework, he/she can major in any subject area.

Because science coursework is very sequential and must be taken in a specific order, students interested in pre-pathologists’ assistant should express their intentions early so that the advisor can help the student with course selection. Taking the right courses beginning in freshman year is vital to staying on track and avoiding a delay in graduation. A fact sheet (https://panthers.sharepoint.com/:b:/s/LS/EYiplbCUAIveK8aU7sUQyOABC5hQ045tuYFTNFzMx2jQ/) is available with more detailed curriculum information.

**Requirements**

Entrance to a pathologists’ assistant program is very competitive – there are only 13 programs in the United States. Students are advised to work closely with the advisor for the program to ensure they are able to present the strongest possible application packet with exceptional grades, standardized test scores, and experiential learning.
Pathologists' assistant schools require that applicants take the Medical College Admission Test (MCAT) or the Graduate Record Exam (GRE). Students normally should arrange to take this test at the end of their junior year. The advisor can provide information regarding the administration of one of these tests.

Minimal coursework preparation while in college would include:

- One year of English
- Math through precalculus and statistics
- Two to two and one-half years of chemistry, including inorganic, organic, and biochemistry
- Two and one-half years of biology, including anatomy and physiology and microbiology

UWM offers all of the prerequisite coursework necessary for students to apply to professional pharmacy schools and colleges throughout the country. Although it is theoretically possible to complete the pre-pharmacy requirements in two years and proceed directly to pharmacy school, the current national average for completion of the pre-pharmacy coursework is three years. In addition, given the highly competitive nature of gaining admission to pharmacy school, students may present a stronger application if they complete four years of college and earn a Bachelor's degree before going to pharmacy school.

Please review the Pre-Pharmacy Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Pharmacy) for information about suggested undergraduate courses to prepare for pharmacy school, career outlook for pharmacists, and options for your major. Pre-Pharmacy is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to pharmacy school are in the sciences, many students choose a science major, though it is not required. Our specialized Pre-Pharmacy advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to pharmacy school. We recommend students begin meeting with this advisor as soon as freshman year in order to plan all needed activities into your college career.

The courses listed above are mandatory for admission to almost all pathologists' assistant schools. Some of these graduate programs require that students major in a science while in college; others leave open the possibility of majoring in something else as long as the necessary science coursework is taken.

**Contact Information**

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

**Pre-Pharmacy**

Scientific advances, an aging population, and expansion of insurance coverage for more Americans will contribute to growth in the pharmacy industry. Employment of pharmacists is expected to increase by 25 percent from 2010 to 2020, faster than the average for all occupations.

The Doctor of Pharmacy degree (PharmD) is the professional degree needed to enter the pharmaceutical field. Most PharmD programs take four years to complete after completion of the minimum prerequisites or an undergraduate degree. Entrance to pharmacy school is competitive and there are more applicants than there are open seats. Different schools also have different prerequisites; it is very important that students consult with the Pre-Pharmacy advisor every semester beginning freshman year in addition to communicating with pharmacy schools they plan to apply to.

### Recommended Science Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>An additional upper level lab course in Biological Sciences</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>CHEM 343</td>
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<td>CHEM 344</td>
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<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

The courses listed above are mandatory for admission to almost all pathologists' assistant schools. Some of these graduate programs require that students major in a science while in college; others leave open the possibility of majoring in something else as long as the necessary science coursework is taken.

### Requirements

Entrance to pharmacy school is very competitive and requires strong grades and satisfactory scores on the Pharmacy College Admission Test (PCAT). Due to the variance in admission requirements, it is very important that students consult with the pre-pharmacy advisor every semester.

Although specific admission requirements may vary among schools, below are some common course requirements among many pharmacy schools:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 150 &amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td>4-5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry I</td>
<td></td>
</tr>
</tbody>
</table>

We recommend students begin meeting with this advisor as soon as freshman year in order to plan all needed activities into your college career.
Other common course requirements include (but are not limited to) the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing and College Writing and Research</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ENGLISH 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>8</td>
</tr>
<tr>
<td>&amp; BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>or BIO SCI 383</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or BIO SCI 465</td>
<td>Biostatistics</td>
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<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>or ECON 104</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>Coursework in social sciences:</td>
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<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication</td>
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<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>Coursework designated as satisfying the cultural diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Not every pharmacy school will accept MATH 211.
2. Or both BIO SCI 101 and BIO SCI 383 for 8 credits.

Contact Information

Current Students contact Pre-Pharmacy Advisor Laura Stark, starkl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Pre-Physician Assistant

Physician assistants work under the supervision of a physician or surgeon to provide direct patient care. They may perform exams, order diagnostic tests, prescribe medication, make diagnoses, provide treatments and assist with surgery. Like physicians, depending on the specialty, evening, weekend, and on-call hours may be a job expectation.

UWM offers all of the prerequisite coursework necessary for application to physician assistant (PA) programs throughout the country. Although it is theoretically possible to enter a PA program after completing the necessary science and math courses but before earning the bachelor's degree, it is a highly-rare situation and becoming even less common as more PA programs now require a bachelor's degree. The graduate level schooling to become a PA takes two to three years after completion of four years of college.

Please review the Pre-Physician Assistant Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Physician+Assistant) for information about suggested undergraduate courses to prepare for PA school, experiential opportunities available to UWM students, the career outlook for PAs, and options for your major. Pre-PA is not a major at UWM, and students must still choose a major. Since most of the prerequisites necessary for application to physician assistant programs are in the sciences, many students choose a science major, though it is not required. Our specialized pre-PA advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to a physician assistant program.

Requirements

Requirements for admission to PA programs vary widely. However, many PA programs consider the following as minimal preparation for admission:

- One year of English;
- Mathematics through pre-calculus and statistics;
- Two to three years of chemistry, including general, organic chemistry, and biochemistry; and
- Several biology courses (see below).

Physics is rarely required.

Many PA schools specify additional courses as part of the minimal preparation for admission. Therefore, pre-PA students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Courses That Typically Satisfy PA School Admission Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
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<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
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<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
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<td>or BIO SCI 383</td>
<td>General Microbiology</td>
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<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
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<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
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<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>2</td>
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</table>

Math – one semester of pre-calculus or calculus

1. Some PA schools may have a three- to five-year expiration date on anatomy and physiology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.
2. Some PA schools may have a five-year expiration date on medical terminology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

Although the courses listed above are often required for admission to almost all PA schools, the rest of the program can be whatever the student wishes. Students are not required to major in Biological Sciences or Chemistry in order to gain admission to PA school.
Contact Information
Current Students contact the Pre-Physician Assistant Advisor Dorrie Von Kerkvoorde, unertl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/letters-science/programs?discipline=Pre-Physician+Assistant

Pre-Podiatry
The U.S. Bureau of Labor Statistics projects shortages across the health care professions, including podiatrists. The profession is expected to grow by 23% over the next ten years, much faster than the average for other professions and due in large part to the needs of an aging population.

Podiatrists, also known as doctors of podiatric medicine, diagnose and treat disorders, diseases, and injuries of the foot and lower leg to keep this part of the body working properly. Podiatrists may prescribe drugs, order physical therapy, set fractures and perform surgery as a routine part of their practice. Most podiatrists are in general practice; some specialize in surgery, orthopedics, primary care or public health. Podiatry school takes approximately four years of additional study and training after four years of college. At the end, students earn the Doctor of Podiatric Medicine (DPM) degree.

There are only nine accredited schools of podiatry in the United States, and it is very competitive to get accepted for one of the very few open seats. Students should work with the Pre-Podiatry advisor starting in freshman year to ensure that they are completing the right milestones to make themselves an attractive applicant to podiatry school. It is important to understand which classes podiatry schools expect students to take during college and what types of work experience podiatry schools expect students to have before leaving college.

Read our Pre-Podiatry Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Podiatry) to learn more about classes, extracurricular activities, and majors related to our Pre-Podiatry program. Pre-Podiatry is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to podiatry school are in the sciences, many students choose a science major, though it is not required. Our Pre-Podiatry advisor works with students to ensure they understand all of the milestones that must be met at UWM in order to be a competitive applicant to podiatry school.

Requirements
UWM offers a special admission track to the Rosalind Franklin University of Medicine and Science Dr. William M. Scholl College of Podiatric Medicine (https://www.rosalindfranklin.edu/academics/dr-william-m-scholl-college-of-podiatric-medicine/). Students who successfully complete admission requirements are offered early review and preferential admission to the Doctor of Podiatric Medicine (DPM) program. In some instances, students may enter the DPM program after only three years of undergraduate study and transfer their first year of the DPM program back to UWM to complete their Bachelor’s degree. Students who elect to follow a more traditional four-year plan are still given preferential admissions status.

Suggested Classes

<table>
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<tr>
<th>Code</th>
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<th>Credits</th>
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<tr>
<td>BIO SCI 150 &amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
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<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
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<td>CHEM 343</td>
<td>Organic Chemistry</td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
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<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
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<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
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<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>48</td>
</tr>
</tbody>
</table>

In addition to the suggested coursework below, it is recommended that students take a few additional upper-level social/behavioral science courses.

Contact Information
Current Students contact Pre-Podiatry Advisor Patty Cobb, pacobb@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Pre-Veterinary Medicine
Employment of veterinarians is expected to grow 36 percent from 2010 to 2020, much faster than the average for all occupations, according to the U.S. Bureau of Labor Statistics. Job opportunities are particularly good in government, farm animal care, research, and in farm animal care. Veterinary education and training takes four to eight years after the completion of four years of college.

UWM offers all of the prerequisite coursework necessary for competitive application to schools of veterinary medicine. There are only 30 veterinary schools in the United States. The application process is extremely competitive so it is important that students interested in this career path begin careful planning of their academic career during the freshman year. Requirements vary significantly from one veterinary school to another, making early planning in consultation with a Pre-Veterinarian advisor all the more vital.

Please review the Pre-Veterinary Fact Sheet (http://uwm.edu/letters-science/programs/?discipline=Pre-Veterinary) for information about suggested undergraduate courses to prepare for veterinary school, experiential opportunities available to UWM students, options for your major, and the career outlook for veterinarians. Pre-Veterinary Medicine is not a major at UWM, and students must still choose a major. Since
most of the prerequisites necessary for application to veterinary school are in the sciences, many students choose a science major, though it is not required. Our Pre-Veterinary advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to medical school. A significant number of volunteer or work hours is often a requirement for application to veterinary school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

Requirements

The vast majority of students admitted to American schools of veterinary medicine hold a bachelor’s degree. An especially well-prepared student occasionally is admitted at the end of the junior year, but pre-veterinary students should plan to complete the full bachelor’s degree.

All American schools of veterinary medicine require that applicants take the Graduate Record Examination (GRE). Pre-veterinary students normally should arrange to take this test at the end of their junior year. The Pre-Veterinary advisor can provide information regarding the administration of this test.

Some schools of veterinary medicine specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-veterinary students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Required Coursework for Admission to Schools of Veterinary Medicine

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
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<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
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<td>CHEM 102</td>
<td>General Chemistry</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>CHEM 343</td>
<td>Organic Chemistry 1</td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory 1</td>
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<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment) 2</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment) 2</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis (or any Statistics course)</td>
<td>3</td>
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</table>

Select one of the following:  

| ENGLISH 101          | Introduction to College Writing                   | 0-3     |
| ENGLISH 102          | College Writing and Research                      |         |
| Or appropriate score on placement exam 3 |                                      |         |

Total Credits: 44-47

1 Some veterinary schools will accept CHEM 341/CHEM 342 instead of CHEM 343/CHEM 344/CHEM 345.
2 Some veterinary schools may require a physics lab, e.g., PHYSICS 121 or PHYSICS 123.
3 Even if a student tests out of English, some veterinary schools require an additional writing course.

Although the courses listed above are mandatory for admission to almost all American schools of veterinary medicine, the rest of the program can be whatever the student wishes. Students are not required to major in biology in order to gain admission to vet school, although many choose to do so because the major aligns with their interests.

Contact Information

Current Students should contact Pre-Veterinary Advisor Lori Fitzenberger, lorifitz@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Psychology

Psychology is the science of behavior. Courses in psychology provide an understanding of the social and biological bases of behavior, proficiency in scientific methods and statistics, knowledge of the factors influencing behavior, insight into the applicability of psychological principles to everyday problems, and familiarity with many core areas of knowledge, including conditioning and learning, personality, social behavior, psychopathology and therapy, human development, health, stress and coping, gender, race and ethnicity, sensation and perception, language, memory, and individual differences.

Programs

- Psychology, BA (p. 1140)
- Psychology, BS (p. 1144)
- Psychology, Minor (p. 1147)
- Psychology, MS (p. 1148)
- Psychology, PhD (p. 1150)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Vincent J. Adesso</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>State University of New York at Binghamton</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Shawn Cahill</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>W. Hobart Davies</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>University of Lethbridge, Canada</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Marshall L. Dermer</td>
<td>Associate Professor Emeritus</td>
<td>PhD</td>
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<tr>
<td>Raymond Fleming</td>
<td>Professor</td>
<td>PhD</td>
<td>Uniformed Services University of the Health Sciences</td>
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</tr>
<tr>
<td>Karyn Frick</td>
<td>Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
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</tr>
<tr>
<td>Deborah Hannula</td>
<td>Associate Professor, Associate Chair</td>
<td>PhD</td>
<td>University of Illinois at Urbana-Champaign</td>
<td></td>
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</tr>
<tr>
<td>John C. Hay</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>Dartmouth College</td>
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</tr>
<tr>
<td>Fred J. Helmstetter</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Emory University</td>
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<tr>
<td>Michael T. Hyman</td>
<td>Professor Emeritus</td>
<td>PhD</td>
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<tr>
<td>Arnold E. Kaufman</td>
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<tr>
<td>Khalil A. Khavari</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
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</tr>
<tr>
<td>Bonita Klein-Tasman</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Jennifer Kunz</td>
<td>Lecturer</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
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</tr>
<tr>
<td>Christine Larson</td>
<td>Associate Professor, Director of Clinical Training</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
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<tr>
<td>Hanjoop Lee</td>
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<tr>
<td>Peter Lenz</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Susan D. Lima</td>
<td>Associate Professor, Graduate Program Coordinator</td>
<td>PhD</td>
<td>University of Massachusetts-Amherst</td>
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</tr>
<tr>
<td>Krista Lisdahl</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Cincinnati</td>
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</tr>
<tr>
<td>Marcellus M. Merritt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Howard University</td>
<td></td>
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</tr>
<tr>
<td>John C. Moore</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
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</tr>
<tr>
<td>James R. Moyer Jr.</td>
<td>Associate Professor, Associate Dean of L&amp;S Social Sciences</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
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</tr>
<tr>
<td>Stacey Nye</td>
<td>Clinical Professor</td>
<td>PhD</td>
<td>University of South Dakota</td>
<td></td>
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<tr>
<td>David C. Osmon</td>
<td>Professor</td>
<td>PhD</td>
<td>Uniformed Services University of the Health Sciences</td>
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<tr>
<td>Richard H. Passman</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Missouri-Columbia</td>
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<tr>
<td>Diane M. Reddy</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Robyn C. Ridley</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Tennessee – Knoxville</td>
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<tr>
<td>Pamela Schaefer</td>
<td>Senior Lecturer Emerita</td>
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<td>University of Wisconsin-Milwaukee</td>
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<td>Ryan Shorey</td>
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<td>University of Southern California</td>
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<td>Rodney Swain</td>
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<tr>
<td>Richard M. Warren</td>
<td>Distinguished Professor Emeritus</td>
<td>PhD</td>
<td></td>
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</tbody>
</table>

**Psychology, BA**

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

A psychology major gives you much career flexibility because of its emphasis on reasoning, problem solving, critical thinking, communication, research and writing. In addition to becoming a counselor or therapist, many students go into human resources, sales, marketing, business management, law, medicine, social work, real estate, social services, and more – all fields that require comprehensive knowledge of human behavior.

Many students go on to graduate school to pursue specialized training. This may lead to a career as a counselor, therapist, or research scientist. In most states, a master’s degree is required to become a licensed practitioner. At UWM, our Psychology major can be tailored: the Bachelor of Arts route is ideal for students planning a career in human services while the Bachelor of Science route focuses on neuroscience and is well-suited for students looking to go into a graduate research program or medical school.

The version of the major that leads to a Bachelor of Arts can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications. In addition, a number of psychology students complete Field Placements. The Field Placement is similar to an internship and permits students to step out of the traditional classroom setting and volunteer with a community organization that has a mission consistent with the
psychology degree. In each case, our students acquire fundamental skills, have opportunities to explore and refine their interests, and establish meaningful connections that permit them to make informed decisions about their future pursuits.

Psychology Major Requirements
The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same; however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS. Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Oral and Written Communication

Part A
Achieve a grade of C or better in the following course:
ENGLISH 102 College Writing and Research (or equivalent)

Part B
Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A
Achieve a grade of C or better in one of the following:
MATH 102 Mathematical Literacy for College Students II
MATH 103 Contemporary Applications of Mathematics
MATH 105 Introduction to College Algebra
MATH 108 Algebraic Literacy II
MATH 111 Introduction to Logic - Critical Reasoning
or PHILOS 111 Introduction to Logic - Critical Reasoning
MATH 116 College Algebra
Or equivalent course

Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements
I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:
1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Complete in one of the following ways:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

IV. International Requirement
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

Complete in one of the following ways:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VI. The Major
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including
any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Psychology Major Requirements
To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of at least 32 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3-4</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or other statistics course as approved by department</td>
<td></td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
<td></td>
</tr>
<tr>
<td>PSYCH 230</td>
<td>Social Psychology: Psychological Perspectives</td>
<td></td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Upper-Level Courses
Select one of the following: 16-17
Select one advanced laboratory course and four Systems and Foundations courses (16 credits)
Select two advanced laboratory courses and three Systems and Foundations courses (17 credits)

Total Credits 32-34

Research Experience
The College of Letters and Science requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 502</td>
<td>Applied Behavior Analysis</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 505</td>
<td>Cognitive Processes</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 514</td>
<td>Conditioning and Learning</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 654</td>
<td>Advanced Physiological Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 656</td>
<td>Psychophysiology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 660</td>
<td>Experimental Child Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 677</td>
<td>Experimental Social Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Cross-Listed Courses
The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major in psychology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 455</td>
<td>Cellular, Molecular and Developmental Neurobiology</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 442</td>
<td>Industrial Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwmilwaukee.campus.eab.com/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.
Honors in the Major

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Deborah Hannula, hannula@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/psychology/undergraduate/

Psychology, BS

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

A psychology major gives you much career flexibility because of its emphasis on reasoning, problem solving, critical thinking, communication, research and writing. In addition to becoming a counselor or therapist, many students go into human resources, sales, marketing, business management, law, medicine, social work, real estate, social services, and more – all fields that require comprehensive knowledge of human behavior.

Many students go on to graduate school to pursue specialized training. This may lead to a career as a counselor, therapist, or research scientist. In most states, a master's degree is required to become a licensed practitioner. At UWM, our Psychology major can be tailored: the Bachelor of Arts route is ideal for students planning a career in human services while the Bachelor of Science route focuses on neuroscience and is well-suited for students looking to go into a graduate research program or medical school.

The version of the major that leads to a Bachelor of Arts can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications. In addition, a number of psychology students complete Field Placements. The Field Placement is similar to an internship and permits students to step out of the traditional classroom setting and volunteer with a community organization that has a mission consistent with the psychology degree. In each case, our students acquire fundamental skills, have opportunities to explore and refine their interests, and establish meaningful connections that permit them to make informed decisions about their future pursuits.

Psychology Major Requirements

The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same; however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS. Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/).

The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
</tbody>
</table>
ENGLISH 102  College Writing and Research (or equivalent)

**Part B**
Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

**Part A**
Achieve a grade of C or better in one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part B**
Course designated as QL-B; may be completed through a major-specific course requirement

### Arts
Select 3 credits

### Humanities
Select 6 credits

### Social Sciences
Select 6 credits

### Natural Sciences
Select 6 credits (At least two courses including one lab)

#### UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

#### UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

### College of Letters & Science Requirements

#### I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
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<td>ECON 210</td>
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<td>MTHSTAT 215</td>
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<tr>
<td>PHILOS 211</td>
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</tr>
<tr>
<td>SOCIO 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

#### III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than
English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Completed in one of the following ways:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor
The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Psychology Major Requirements
To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of at least 32 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
</tr>
<tr>
<td></td>
<td>Or other statistics course as approved by department</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td></td>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PSYCH 205</td>
<td>Personality</td>
</tr>
<tr>
<td></td>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
</tr>
<tr>
<td></td>
<td>PSYCH 230</td>
<td>Social Psychology: Psychological Perspectives</td>
</tr>
<tr>
<td></td>
<td>PSYCH 260</td>
<td>Child Psychology</td>
</tr>
<tr>
<td></td>
<td>Upper-Level Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>16-17</td>
</tr>
<tr>
<td></td>
<td>Select one advanced laboratory course and four Systems and Foundations courses (16 credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two advanced laboratory courses and three Systems and Foundations courses (17 credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>32-34</td>
</tr>
</tbody>
</table>

Research Experience
The College of Letters and Science requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and
analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 502</td>
<td>Applied Behavior Analysis</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 505</td>
<td>Cognitive Processes</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 514</td>
<td>Conditioning and Learning</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 654</td>
<td>Advanced Physiological Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 656</td>
<td>Psychophysiology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 660</td>
<td>Experimental Child Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 677</td>
<td>Experimental Social Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Cross-Listed Courses

The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major in psychology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 455</td>
<td>Cellular, Molecular and Developmental Neurobiology</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 442</td>
<td>Industrial Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Deborah Hannula, hannula@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/psychology/undergraduate/

Psychology, Minor

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

The minor in Psychology can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications.
Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

To be accepted as a minor in psychology, students must have completed PSYCH 101. The undergraduate minor consists of 18 credits in psychology, at least 9 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
<td></td>
</tr>
<tr>
<td>PSYCH 230</td>
<td>Social Psychology: Psychological Perspectives</td>
<td></td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td></td>
</tr>
<tr>
<td>Select any four additional psychology courses, at least three of which must be at the 300 level or above</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Please note: If you are considering a potential major in Psychology, it is recommended highly that you take PSYCH 210 and PSYCH 325 as these are required for the major.

Contact Information

Current Students contact Associate Professor Deborah Hannula, hannula@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/psychology/undergraduate/

Psychology, MS

The Department of Psychology offers two graduate degrees: the PhD in Psychology and the MS in Psychology. Study is available in the following concentrations, which we refer to as programs.

PhD in Psychology (includes earning the MS)

- Clinical Psychology program (accredited by the American Psychological Association)
- Health Psychology program
- Neuroscience program¹

MS in Psychology

- Terminal Health Psychology program.

¹ Please note that the Department of Biological Sciences and several other departments also offer opportunities for doctoral study in neuroscience.

All programs train students in the facts, methodologies, and theories of psychology, with special emphasis on developing research competence. The department has well-equipped laboratories and an on-campus training clinic. The city of Milwaukee provides additional opportunities for training at hospitals, social service agencies, and the Medical College of Wisconsin.

Note that all of the department’s doctoral programs are actually combined MS/PhD programs, although students who already have a master’s degree in psychology or neuroscience are also encouraged to apply. If admitted, they will not be required to earn the MS at UWM if their master’s degree included an empirically based thesis. Transfer from a PhD program to any another PhD program in our department requires reapplication.

Although it is possible for the academic portion of the doctoral program to be completed in four years, most students require five or more years. Doctoral students are expected to be enrolled full time and to earn their PhDs within seven years of initial enrollment, exclusive of the one-year internship required in the clinical program.

Students seeking only master’s-level training may apply to the health psychology specialization. It is possible to complete requirements for the MS in two or three years of full-time study. Part-time study is allowable, as long as the MS is earned within seven years of enrolling.

Students may not earn more than two degrees from the Department of Psychology at UWM. Therefore, students who earned a bachelor’s degree in psychology from UWM are not eligible to apply for admission to the doctoral program unless they earned a master’s degree in psychology elsewhere.

The department refers students interested in Counseling Psychology or School Psychology to the Department of Educational Psychology.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Application must be made to the Graduate School.

Applicants are admitted only at the beginning of each academic year. Applications must be submitted by December 1. Important: It is essential to consult the department's website for important information, including the departmental admissions brochure: http://uwm.edu/psychology/graduate/application/ (http://uwm.edu/psychology/graduate/application/)

An applicant must meet Graduate School (http://uwm.edu/graduateschool/admission/) requirements plus the following departmental requirements to be considered for admission to the program:
1. Completion of an undergraduate major in psychology (or neuroscience).
2. Receipt of positive recommendation by the Departmental Admissions Committee.

Admission is based on evaluation of an applicant’s entire record. In evaluating each application, the Admissions Committee examines such factors as grades, research record (e.g., research apprenticeships, publications, presentations, and senior or honors theses), and letters of recommendation.

Students without an undergraduate major in psychology or neuroscience are welcome to apply, and will be evaluated on a case-by-case basis. If they are offered admission, they will be informed about any additional courses that would need to be taken at UWM (in addition to the required graduate coursework) to fill gaps in training.

As part of their doctoral requirements, PhD students must earn a master’s degree in psychology that includes a thesis derived from empirical research; they do this by fulfilling the requirements of the "General Psychology Track" for the MS degree while enrolled simultaneously in the PhD program. An exception is that students who already have earned a master's degree based on an empirical thesis in psychology or neuroscience from another college or university are exempt from the requirement of earning the MS in our department.

**Credits and Courses**

**General Psychology Track**
Students in the general psychology track must be simultaneously enrolled in the doctoral program. The minimum requirement for the MS is 30 graduate credits of psychology, 24 of which must be earned in formal coursework (excluding practica) and 6 of which must be earned through an acceptable thesis.

**Thesis**
The student, under the direction of an advisor, must develop an acceptable thesis based on empirical research. The student must pass an oral examination in defense of the thesis.

**Time Limit**
The student must complete all degree requirements within three years of initial enrollment.

**Specialization in Health Psychology**
Health psychology is concerned with the psychological variables that influence physical health and illness. The MS program in health psychology offers training in research and theories relevant to health promotion. The program of study consists of core health psychology coursework, research coursework, psychology breadth coursework, and an optional field placement. Current research topics include gender and health, cancer prevention and health education, reproductive health and STD prevention, patient advocacy and self-care behaviors, the effects of stress and mechanisms of coping with it, and child abuse prevention. Research is conducted in the laboratory as well as in clinical settings, and many members of the faculty have strong ties to the Milwaukee community.

**Course of Study**
The course of study consists of at least 36 credits, distributed as follows:

<table>
<thead>
<tr>
<th>Core Health Psychology Courses (12 Credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 955 Seminar in Social Psychology and Health</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 757</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 756</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 711</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 832</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 854</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 930</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 954</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Research Coursework (15 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 510 Advanced Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 610 Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 932 Proseminar in Evaluation Research (or an acceptable equivalent course, as determined by area faculty)</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 790 Masters Research</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Breadth coursework (9 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits in consultation with an advisor</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits 36

The MS specialty in health psychology emphasizes the application of psychological theories to health-related issues. Although students are exposed to theories and applications in coursework, the field placement option offers a further opportunity to learn by doing. Students are encouraged to take at least 3 credits of PSYCH 812 in their area of interest.

**Additional Requirements**

**Advising and the Major Professor**
Graduate School and departmental regulations require students to have a major professor to direct their research activities. It is important for students to start their research early in their graduate studies. Admittees are assigned to a major professor they have chosen during the admissions process.

Before the end of the second semester, the student must form an advisory committee of three departmental faculty members, including the student’s major professor. Students are free to change their major professor at any time. The Department also provides a Graduate Program Coordinator, who advises about courses and program requirements and who approves programs of study. The Graduate Program Coordinator is also available to help students who wish to change their major professors to find new ones.

**Thesis or Project**
The student, under the direction of an advisor, has the option of developing either an acceptable thesis based on empirical research or an acceptable project (a review or theoretical paper). In either case, students must demonstrate their ability to formulate a research idea and pursue independent and original investigation. The student must pass an oral examination in defense of the thesis, but no oral examination is required for a project.
Time Limit
The student must complete all requirements within seven years of initial enrollment.

Psychology, PhD
The Department of Psychology offers two graduate degrees: the PhD in Psychology and the MS in Psychology. Study is available in the following concentrations, which we refer to as programs.

PhD in Psychology (includes earning the MS)
- Clinical Psychology program (accredited by the American Psychological Association)
- Health Psychology program
- Neuroscience program

MS in Psychology
- Terminal Health Psychology program.

1 Please note that the Department of Biological Sciences and several other departments also offer opportunities for doctoral study in neuroscience.

All programs train students in the facts, methodologies, and theories of psychology, with special emphasis on developing research competence. The department has well-equipped laboratories and an on-campus training clinic. The city of Milwaukee provides additional opportunities for training at hospitals, social service agencies, and the Medical College of Wisconsin.

Note that all of the department’s doctoral programs are actually combined MS/PhD programs, although students who already have a master’s degree in psychology or neuroscience are also encouraged to apply. If admitted, they will not be required to earn the MS at UWM if their master’s degree included an empirically based thesis.

Transfer from a PhD program to any another PhD program in our department requires reapplication.

Although it is possible for the academic portion of the doctoral program to be completed in four years, most students require five or more years. Doctoral students are expected to be enrolled full time and to earn their PhDs within seven years of initial enrollment, exclusive of the one-year internship required in the clinical program.

Students seeking only master’s-level training may apply to the health psychology specialization. It is possible to complete requirements for the MS in two or three years of full-time study. Part-time study is allowable, as long as the MS is earned within seven years of enrolling.

Students may not earn more than two degrees from the Department of Psychology at UWM. Therefore, students who earned a bachelor’s degree in psychology from UWM are not eligible to apply for admission to the doctoral program unless they earned a master’s degree in psychology elsewhere.

The department refers students interested in Counseling Psychology or School Psychology to the Department of Educational Psychology.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Application must be made to the Graduate School.

Applicants are admitted only at the beginning of each academic year. Applications must be submitted by December 1. Important: It is essential to consult the department’s website for important information, including the departmental admissions brochure: http://uwm.edu/psychology/graduate/application/

An applicant must meet Graduate School requirements and the following departmental requirements to be considered for admission to the program:

1. Completion of an undergraduate major in psychology (or neuroscience).
2. Receipt of a positive recommendation by the Departmental Admissions Committee.

Admission is based on evaluation of an applicant’s entire record. In evaluating each application, the Admissions Committee examines such factors as grades, research record (e.g., research apprenticeships, publications, presentations, and senior or honors theses), and letters of recommendation.

Students without an undergraduate major in psychology or neuroscience are welcome to apply, and will be evaluated on a case-by-case basis. If they are offered admission, they will be informed about any additional courses that would need to be taken at UWM (in addition to the required graduate coursework) to fill gaps in training.

As part of their doctoral requirements, PhD students must earn a master’s degree in psychology that includes a thesis derived from empirical research; they do this by fulfilling the requirements of the “General Psychology Track” for the MS degree while enrolled simultaneously in the PhD program. An exception is that students who already have earned a master’s degree based on an empirical thesis in psychology or neuroscience from another college or university are exempt from the requirement of earning the MS in our department.

Credits and Courses
The minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM.

Departmental Doctoral Curriculum
Only courses numbered 700 or above and a few departmentally-designated undergraduate/graduate courses, including PSYCH 510 and PSYCH 610, may be counted in the doctoral curriculum, which is specified in the department’s Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook/).

Clinical Psychology Curriculum
The Clinical Psychology curriculum consists of a sequence of required clinical courses, including courses in professional ethics, issues, and research methods in clinical psychology, developmental
psychopathology; foundations of psychotherapy; assessment (two semesters); and empirically-supported interventions. Other required courses include a two-course statistics sequence, history of psychology, multicultural issues in counseling or clinical psychology, and lifespan developmental psychology. Also, Clinical Psychology students must fulfill American Psychological Association (APA) requirements by completing one course from each of the following areas: biological bases of behavior, cognitive/affective bases of behavior, and social bases of behavior.

In addition to classroom courses, students also must complete a sequence of practicum and community placement courses for intensive training in assessment, diagnosis, therapy, and professional practice and, later, a pre-doctoral, extramural, full-time (2,000 hours) internship. Students should consult the department’s Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook/) for details.

Completion of a departmental minor is optional for clinical students (available areas: Cognition and Perception, Developmental Psychology, Health Psychology, Neuroscience, and Quantitative Methods).

The clinical program strongly adheres to the scientist-practitioner model of training. It is designed to train psychologists as generalists. However, our faculty members interests cluster in three primary areas including neuroscience/neuropsychology, cognitive/behavioral and behavioral therapies, and pediatric/health psychology. As a result, students often leave the clinical program with a focus in one or more of these areas. The clinical program is accredited by the American Psychological Association (APA).¹ The program has been accredited continually since 1980.

In addition, the clinical program is a member of the Academy of Psychological Clinical Science. Membership in the Academy is granted only after a thorough peer review process. Our membership in the Academy indicates our commitment to excellence in scientific training and to using clinical science as the foundation for designing, implementing, and evaluating assessment and intervention procedures.

¹ Office of Program Consultation and Accreditation 750 First Street, NE Washington, DC 20002-4242. Phone: 202-336-5979

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>Clinical Psychology Sequence</td>
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<td>Statistics</td>
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<tr>
<td>3</td>
<td>History of Psychology</td>
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<tr>
<td>9</td>
<td>Breadth Requirement</td>
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<td>3</td>
<td>Multicultural Issues</td>
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<td>3</td>
<td>Developmental Psychology</td>
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<tr>
<td>12</td>
<td>Research Credits</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

**Health Psychology Curriculum**

The Health Psychology curriculum consists of a core course in health psychology, two other courses in health psychology chosen in consultation with the major professor, a two-course statistics sequence, completion of two departmental minor areas of study (available areas: Cognition and Perception, Developmental Psychology, Neuroscience, Psychopathology, and Quantitative Methods) and one breadth course chosen in consultation with the major professor. Students should consult the department’s Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook/) for details.

Health psychology, which is concerned with the psychological variables that influence physical health and illness, has become a dominant force in the health sciences. The program offers training in research and theories relevant to health promotion. Faculty members and students work together on projects focused on gender and health, cancer prevention and health education, reproductive health and STD prevention, patient advocacy and self-care behaviors, the effects of stress and mechanisms of coping with it, and child abuse prevention. Research is conducted in the laboratory as well as in clinical settings, and many members of the faculty have strong ties to the Milwaukee community.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>9</td>
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<td>6</td>
<td>Statistics</td>
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<tr>
<td>36</td>
<td>Departmental Minors and Research Credits</td>
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<tr>
<td>Minimum 18 Research Credits</td>
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<td></td>
</tr>
<tr>
<td>54</td>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

**Neuroscience Curriculum**

The Neuroscience curriculum includes four core courses (behavioral neuroscience, cellular and molecular neuroscience, cognitive neuroscience, and proseminar in biological psychology). Other required courses include a two-course statistics sequence, seminar in neuroscience (three semesters of official enrollment), and three electives, chosen in consultation with the major professor. Students should consult the department’s Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook/) for details.

Neuroscience is devoted to the study of the nervous system. The curriculum is designed to provide students with the intellectual and technical skills necessary for a productive career in academics or industry. Students are part of the greater Milwaukee Area Neuroscience group, which includes faculty members and students from various departments at UWM, the Medical College of Wisconsin, and Marquette University. Students learn a wide range of techniques working with laboratory animals and human subjects. These include experimental design, behavioral testing and analysis, neurophysiology, aseptic surgical techniques, quantitative protein and mRNA assays, immunohistochemistry, eyetracking, and functional magnetic resonance imaging (fMRI). Current research topics include cellular and molecular mechanisms of learning and memory; mapping brain areas involved in memory and emotion in humans and rodents using fMRI; effects of exercise on cerebral blood flow; mechanisms of recovery from brain damage; visual attention; effects of aging on learning and memory; and the role of calcium and calcium-binding proteins in ischemic cell death.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Neuroscience Courses</td>
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<td>6</td>
<td>Neuroscience Seminar</td>
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<td>6</td>
<td>Statistics</td>
<td></td>
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<tr>
<td>30</td>
<td>Additional Courses</td>
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</tr>
<tr>
<td>Minimum 18 credits in Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Advising and the Major Professor**

Graduate School and departmental regulations require students to have a major professor to direct their research activities. Entering students are
assigned to the major professor they have chosen during the admissions process. Students are free to change their major professor at any time. The Department provides a Graduate Program Coordinator, who advises about courses and program requirements and who approves programs of study. The Graduate Program Coordinator also is available to help any student who wishes to change his/her major professor.

**Multicultural Requirement**
Clinical students must complete a course in multicultural issues in clinical or counseling psychology.

**Developmental Psychology Requirement**
Clinical students must complete a graduate-level lifespan developmental psychology course.

**Extradepartmental Minors and Certificates (optional)**
If they wish, and with the approval of their major professors, students may complete, in another department, a coherent program of at least 8 graduate credits (undergraduate/graduate courses taken for graduate credit apply). They may also, if they wish, complete one or more graduate certificate programs.

**Residence**
The student must meet minimum Graduate School residence requirements. Please note the requirement of earning at least 27 graduate credits at UWM. For more information on residence, see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.

**Doctoral Preliminary Examination**
Students must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The preliminary examination can be taken only after the master's degree has been earned and all relevant coursework has been completed satisfactorily. The format of the examination depends on the program. Specific guidelines for preliminary examinations can be found in the department's Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook/).

**Clinical Internship Requirement**
With the approval of the department's Clinical Training Committee, clinical students are eligible to begin a required one-year, 2,000-hour internship after they have passed the preliminary examination and the doctoral dissertation proposal hearing.

**Dissertation Defense**
The candidate must write a dissertation that demonstrates the ability to formulate a research topic and pursue independent and original investigation. A doctoral dissertation committee must have at least five members, at least three of whom must be tenure-track or tenured faculty in the UWM Department of Psychology who hold Graduate Faculty status. A maximum of two committee members can be individuals who have doctoral degrees but who do not have Graduate Faculty status at UWM.

**Final Oral Examination**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
The student must complete all degree requirements within seven years of initial enrollment (four years if entering with a master's degree), excluding internship.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.

**Public and Non-Profit Administration**
Douglas Ihrke, PhD, Professor, Chair and Director of Nonprofit Administration, Director of Public Administration
Alumni House 381, Phone: (414) 229-3167, Fax: (414) 229-2353

The public and nonprofit administration unit (PNA) houses several graduate programs, but also offers some courses at the undergraduate level. PNA oversees the following graduate programs:

- Master of Science in Nonprofit Management and Leadership
- Master of Public Administration
- Graduate Certificate in Nonprofit Management

PNA partners with the Department of Urban Planning to offer a coordinated Master of Public Administration/Master of Urban Planning program. Additionally, PNA partners with the Helen Bader School of Social Welfare to offer a joint Master of Science in Criminal Justice and Master of Public Administration.

Undergraduate courses in public administration will provide a background for students interested in pursuing graduate degrees in the field as well as for those who wish to enhance their studies in another program with an understanding of the administration of public and nonprofit programs.

- Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1153)
- Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1154)
- Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1156)
- Public Administration, MPA/Criminal Justice, MS (p. 1158)
- Public Administration, MPA/Urban Planning, MUP (p. 1159)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layth Alwan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td>☑</td>
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<tr>
<td>Erica Bornstein</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Irvine</td>
<td>☑</td>
<td></td>
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<tr>
<td>Marcus Ethridge</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td></td>
<td></td>
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</table>
Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration)

Related Certificates
- Graduate Certificate in Nonprofit Management (p. 300)

Overview
The College of Letters and Science and the Sheldon B. Lubar School of Business offer and present jointly the Master of Science (MS) in Nonprofit Management and Leadership. We are one of only 9 graduate-level programs in the world accredited by the Nonprofit Academic Centers Council (NACC).

Through a rigorous curriculum mapping process, this program was found to meet and surpass requirements in 16 curricular areas vital to nonprofit leaders, including board governance, fundraising, and executive leadership. The review panel found that UWM’s program "unambiguously meets 16 of the 16 major content subject areas through curriculum instruction," and surpassed requirements in the majority of those categories.

Alumni of this program are consistently found in nonprofit organizations throughout the country working with a variety of missions, in positions of leadership ranging from program oversight to executive leadership and board service.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (http://uwm.edu/onestop/contact/financial-aid/), all application materials must be submitted by March 1 of each year.

Admission
To be admitted to the MS in Nonprofit Management and Leadership degree program, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/).

During the admissions process, students will be asked to show evidence of having satisfactorily completed undergraduate or higher level foundation coursework in the principles of accounting and economics. Those students who are unable to show such evidence may be admitted with these academic deficiencies but will then meet with their respective academic advisors to identify and obtain approval for what they must do to remove these deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants must submit the following for review by the Graduate School and the Nonprofit Management Program Faculty Committee:

1. Official transcripts from all colleges or universities previously attended.
2. Three letters of recommendation from persons familiar with the applicant's academic ability and/or professional achievements.
3. Scores from either the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).

4. For those students whose native language is not English, minimum TOEFL score (Test of English as a Foreign Language) of 550 PBT or 79 iBT or minimum IELTS score (International English Language Testing System) of 6.5.

5. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

### Credits and Courses

The MS in Nonprofit Management and Leadership degree requires satisfactory completion of 39 credits of graduate-level coursework including 33 credit-hours of required or “constrained choice” courses and 6 credit-hours of elective courses as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONPROF 765</td>
<td>International Nongovernmental Organizations</td>
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</tr>
<tr>
<td>NONPROF 770</td>
<td>Leveraging Technology in the Public and Nonprofit Sectors</td>
<td></td>
</tr>
<tr>
<td>NONPROF 785</td>
<td>Managing Change in Public and Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 921</td>
<td>Nonprofit Administrative Internship</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 461</td>
<td>Organizational Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 920</td>
<td>Seminar in Race and Ethnic Relations</td>
<td></td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 841</td>
<td>Health Policy in Urban Society</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 39

1. This course will serve as the integrative “capstone” requirement for the program and must be taken after completing all other required courses (or concurrently with the final required courses).
2. This is a pre-approved but not exhaustive list: Students may request alternative courses offered in other departments at UWM. Please send an email to Program Advisor with a course description and/or syllabus, and stated reasons why the course being proposed is an appropriate fit for the student’s academic and career goals.

### Additional Requirements

#### Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

#### Thesis

Not Required

#### Comprehensive Examination

Not Required

#### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

### Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration)

The Graduate Certificate in Nonprofit Management is a collaborative effort between the Lubar School of Business, the College of Letters & Science, and other campus units that have research and/or teaching interests in nonprofit management and leadership, nonprofit organizations, the nonprofit sector, and philanthropy. The certificate responds to the growing need for trained professionals to assume management and leadership positions in non-governmental, nonprofit sector organizations.

The multi-disciplinary Graduate Certificate in Nonprofit Management is designed to provide students with the knowledge and skills needed
to successfully pursue or advance careers within nonprofit sector organizations.

Students in degree programs across campus such as urban studies, public administration, business, social welfare, education or the arts, have combined the Graduate Certificate in Nonprofit Management with their degree to further enhance their academic preparation for their particular career goals.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid ([http://uwm.edu/onestop/contact/financial-aid/](http://uwm.edu/onestop/contact/financial-aid/)), all application materials must be submitted by March 1 of each year.

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application ([https://graduateschool-apply.uwm.edu/](https://graduateschool-apply.uwm.edu/)).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students wishing to earn a Graduate Certificate in Nonprofit Management must complete the required 15 graduate credit hours. No student may complete all 15 credits within a single school or college. The curriculum consists of the following five courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUSMGMT 718</td>
<td>Concepts and Practice of Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
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<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
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<tr>
<td>Electives</td>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
</tr>
<tr>
<td>NONPROF 740</td>
<td>Executive Leadership of Nonprofit Organizations</td>
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<tr>
<td>NONPROF 705</td>
<td>Professionals and Volunteers in Nonprofit Organizations</td>
</tr>
<tr>
<td>NONPROF 795</td>
<td>Introduction to Nonprofit Revenue Streams and Portfolios</td>
</tr>
</tbody>
</table>

Total Credits 15

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Gainful Employment Disclosure Information

• UWM Financial Aid Gainful Employment ([https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary](https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary))
Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration)

The College of Letters and Science and the Lubar School of Business offer and present jointly the Master of Public Administration (MPA).

The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (http://uwm.edu/onestop/contact/financial-aid/), all application materials must be submitted by March 1 of each year.

Admission

An applicant must meet Graduate School requirements and hold a bachelor’s degree from an accredited college or university to be considered for admission.

There are no fixed prerequisites in terms of prior academic training; but background in public administration, American governmental institutions, economics, statistics, and computer applications in social science is beneficial. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The MPA program requirements to be considered for admission are:

1. An undergraduate grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons familiar with applicant’s academic ability and achievement.
3. Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).

Candidates seeking admission to the MPA/MUP program must apply to and be admitted to both programs. The requirements for admission to the MUP program are detailed in the Urban Planning section of this Catalog.

Credits and Courses

The Master of Public Administration degree requires satisfactory completion of 39-42 credits of prescribed graduate study and appropriate coursework.

Minimum Grade Requirements in the Core Courses

In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student’s grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only the highest grade earned; that is, the grade earned in the first attempt at a Core Course will not be averaged with the grade earned in the repeat.)

Core Requirements

Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
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<table>
<thead>
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<th>Credits</th>
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<tbody>
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<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
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</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
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</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
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</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
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</tr>
</tbody>
</table>
Tracks
Select Track A or B below

15-18

Capstone
PUB ADM 959 Capstone Seminar in Public Administration 3

Total Credits 39-42

1 Waived for students with significant experience in the public or nonprofit sector; see Track A.
2 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

Track A
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

Track B
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Every student must select and complete the requirements for one of the following three concentrations:

Municipal Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PUB ADM 730</td>
<td>Budgeting for Public Sector Professionals</td>
<td>6</td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
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</tr>
</tbody>
</table>

Select two of the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI/PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 701 &amp; URBPLAN 702</td>
<td>Introduction to Land Use Planning &amp; Introduction to Planning Law</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select at least 6 elective credits 1

Total Credits 18

1 Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Other courses may be substituted with the approval of the MPA Director.

Comparative Public Organizations

Comparative Seminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select at least 6 elective credits 1

Total Credits 18

1 Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

Thesis
Not required.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment. Students in the MPA/MUP program are allowed up to seven years to complete all requirements for both degrees.
Public Administration, MPA/Criminal Justice, MS

Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MPA program.

Credits and Courses

Students accepted into this MS/MPA program complete the following courses:

### MS in Criminal Justice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Criminological Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**
Select 12 additional credits within the criminal justice program
Select 12 additional credits with the consent of the student’s advisor

**Total Credits**

### Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

**Track A**
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

**Track B**
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td></td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

### Capstone

PUB ADM 959 Capstone Seminar in Public Administration

### General Public Administration

Select three of the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/POL SCI 914</td>
<td>Seminar in Intergovernment Relations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td></td>
</tr>
</tbody>
</table>

### Concentration

Select 12 credits in CRM JST

### Internship

PUB ADM 921 Public Service Administrative Internship

**Total Credits**

1. Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

2. An internship is mandatory for students with no public sector work experience.

### Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.
Additional Requirements

Time Limit
Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Public Administration, MPA/Urban Planning, MUP

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

Requirements

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

This program allows students to complete master’s degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits will depend on the student’s track and choice of concentration in public administration.

Required Courses in Urban Planning (27 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 27

Required Courses in Public Administration (18 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
</tr>
<tr>
<td>or URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one seminar in organizational management and leadership from the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 732</td>
<td>Transforming Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

1 The internship requirement will be waived for students with significant public sector work experience.

Concentration Requirement (18 credits)
Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

Quantitative Social Data Analysis, Undergraduate Certificate

Aki Roberts, Associate Professor of Sociology, Co-Coordinator, aki@uwm.edu
Thomas Holbrook, Wilder Crane Professor of Government, Political Science, Co-Coordinator, holbroot@uwm.edu

The Certificate in Quantitative Social Data Analysis is structured to ensure that students are exposed to a breadth of data analysis topics, including research methods, Geographical Information System (GIS), multiple regression, and advanced electives on a variety of quantitative topics in various social science fields, as well as software packages that are in common use by potential employers. The program is interdisciplinary in that it draws on courses from 9 departments (Africology, Anthropology, Communications, Criminal Justice, Economics, Geography, Psychology, Political Science, and Sociology) in social science-related fields, but it is intended to complement students’ social science degree with additional concrete quantitative skills in social data analysis. Different majors have distinctive emphases in the topics that are most central to their practice of quantitative research, so that methods courses in different fields will significantly differ in their content. Therefore, the choice of courses embodied in the certificate program will allow students to focus their training in their own field, while still ensuring a strong base of general knowledge.

Eligibility
The certificate is open to current UWM undergraduates, UWM bachelor’s degree holders, or graduates of other accredited four-year colleges; to be admitted to the certificate program, students must have a current overall GPA of 3.0 at UWM or their bachelor’s degree institution. Students,
Religious Studies
completing the certificate not in conjunction with a degree are not eligible for financial aid.

Requirements
To obtain the certificate, the student must obtain a grade of at least C in any course used to satisfy the certificate requirements, and a cumulative GPA of 3.0 over all courses used for the certificate. Twelve of the 15-18 required credits must be earned in residence at UWM. Of the credits must be on the 300-level or above. Courses for the certificate may not be taken on a credit/no credit basis.

Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

Students are required to take one course each from 5 areas:

1. Introductory statistics (3-4 credits);
2. Research methods (3-4 credits);
3. GIS (3 credits);
4. Multiple regression (3 credits); and
5. Electives (3-4 credits).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Statistics</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>Research Methods</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 301</td>
<td>Research Methods in African &amp; African Diaspora</td>
<td></td>
</tr>
<tr>
<td>COMMUN 370</td>
<td>Quantitative Research in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>POL SCI 203</td>
<td>Introduction to Political Science Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 361</td>
<td>Research Methods in Sociology</td>
<td></td>
</tr>
<tr>
<td>CRM JST 662</td>
<td>Methods of Social Welfare Research</td>
<td></td>
</tr>
<tr>
<td>GIS</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td></td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Data Analysis; Crime Mapping; ArcGIS</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>Multiple Regression</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>3-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one:</td>
<td></td>
</tr>
<tr>
<td>ECON 411</td>
<td>Economic Forecasting Methods</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
</tr>
<tr>
<td>PSYCH 510</td>
<td>Advanced Psychological Statistics</td>
</tr>
</tbody>
</table>

Total Credits | 15-18 |

1 Other courses not on this list but relevant to quantitative social data analysis may be accepted with the approval of the Certificate Program Coordinator. A student making such a request must submit syllabi from the courses involved to the coordinator.

Awarding the Certificate
Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

Religious Studies
Meghan Murphy-Lee, PhD, Senior Lecturer, Director

The interdisciplinary major in religious studies draws on the resources of UWM faculty members with a teaching and research interest in religion. This program provides students with a broad humanistic background in religion and an opportunity to develop special concentrations in specific areas of interest. There is no sectarian program of instruction. Rather, faculty members bring to their teaching the special academic characteristics of their own scholarly disciplines, and majors in the program draw upon a wide sample of those academic traditions. Thus, such subjects as the history and philosophy of religion and religion in art and literature are included in this program. Students choose from courses that consider religion in a wide array of cultural and historical contexts around the globe, including Buddhist, Christian, Classical Greek and Roman, Hindu, Islamic, Jewish, African, and American Indian religions.

Religious studies serves students seeking a broadly humanistic program, those who are pursuing a wide range of pre-professional education programs, those anticipating teaching careers at the secondary or higher educational level, and those who will undertake further study for the religious ministry.

Programs
• Religious Studies, BA (p. 1160)
• Religious Studies, Minor (p. 1164)

Religious Studies, BA
Religious studies is an interdisciplinary major that draws on courses from multiple departments to give students a broad understanding of the historical, cultural and philosophical principles of the world’s religions,
including Buddhism, Christianity, Classical Greek and Roman religions, Hinduism, Islam, Judaism, African and Native-American religions. These diverse belief systems are studied not just for their influence over past generations but also to better understand their role in modern issues.

Religious Studies is not just for students planning to go on to become a priest, rabbi or minister. The program provides excellent preparation for all careers that require critical thinking, logic, analysis and writing skills. Because of the breadth of the subject matter, students graduate with a global perspective, an appreciation for different viewpoints and substantive knowledge about ethics and core belief systems of the past and present.

UWM students in Religious Studies take courses in history, anthropology, philosophy, political science, classics, art history, literature, and more. Many students also complement their major with studies in the foreign language since many religions have traditions and foundations in another language.

Students will also find a very active student organization - the Religious Studies Student Organization. The group brings in speakers and engages with the local community on scholarly topics of interest.

**Double Major**

It often is possible to complete a double major in Religious Studies and another subject. This is the case particularly when a student already has undertaken the major in the other field but has credits in religion courses as well. The student often can take courses that count for both Religious Studies and the other major. Interested students should consult with the Program Director.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part A</th>
<th>Achieve a grade of C or better in one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part B</th>
<th>Course designated as QL-B; may be completed through a major-specific course requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Arts</strong></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.
II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>1</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Social Sciences Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

- Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 and above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Religious Studies Major Requirements**

The religious studies major requires completion of at least 33 credits, including at least 18 in upper-division courses (numbered 300 and above) of which at least 15 must be taken in residence at UWM. In satisfying these requirements, students must select courses from at least three different curricular areas. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The required 33 credits must be distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
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<td></td>
</tr>
<tr>
<td>Recommended</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RELIGST 101 Introduction to World Religions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RELIGST 395 Theories of Religion (or equivalent)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 594 Methods and Theory in the Historical Study of Religion: (or equivalent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Capstone Experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following research options:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 600 Seminar in History: (with research conducted on a religion-related topic)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 27 credits (see below)</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

1 In all cases, the religious studies director must approve the topic to satisfy the research requirement. Majors are required to file the appropriate research/capstone approval form prior to completion of their research/capstone course.

**Electives**

All majors are required to complete at least 27 additional credits beyond the core courses. Nine elective credits must be distributed among three different religious traditions. A religious tradition course must focus primarily (more than 50%) on one specific region. Twelve of these 27 credits must be numbered 300 or above. The list of approved electives is posted on the program's website (http://uwm.edu/religiousstudies/undergraduate-programs/requirements/).

Relevant language courses above the second semester will be counted as electives toward the Religious Studies major. Relevant languages depend on the student’s primary concentrations in religious studies but potentially include Arabic, Chinese, Japanese, Korean, Thai, Greek, Latin, Hebrew, German, Spanish, French, Italian, or other languages with approval of the director. Majors must file the appropriate forms with the director to receive approval for language courses.

**Optional Concentration**

Religious Studies majors have the option of focusing their programs of studies on one or more religious traditions. To discuss this option, please contact the Program Director.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Senior Lecturer Meghan Murphy-lee, murphyle@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or email let-sci@uwm.edu

http://uwm.edu/religiousstudies/undergraduate-programs/

Religious Studies, Minor

Religious Studies is an interdisciplinary major or minor that draws on courses from multiple departments to give students a broad understanding of the historical, cultural and philosophical principles of the world’s religions, including Buddhism, Christianity, Classical Greek and Roman religions, Hinduism, Islam, Judaism, African and Native-American religions. These diverse belief systems are studied not just for their influence over past generations but also to better understand their role in modern issues.

Requirements
The minor requires 18 credits in approved Religious Studies courses, including at least 9 upper-division (numbered 300 and above) credits taken in residence at UWM. Students must complete coursework from at least two different curricular areas. In addition, the minor must include courses dealing with two different religious traditions. (RELIGST 101 may not be used in fulfilling this requirement.) The College requires that students earn at least a 2.0 GPA on all UWM courses attempted for the minor. A 2.0 GPA also is required on all minor credits attempted, including any transfer work.

Contact Information
Current Students contact Senior Lecturer Meghan Murphy-lee, murphyle@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or email let-sci@uwm.edu

http://uwm.edu/religiousstudies/undergraduate-programs/

Sociology

Sociology is the study of patterns of social relations and how those patterns shape what people do and think. From community and conflict, family and inequality, social change and religion, crime and conformity, class and race, gender and work, few fields offer students such breadth in the study of the social world we all inhabit.

For undergraduates we offer an exciting array of classes, where students can study everything from human sexuality to the sociology of culture, from issues related to aging to pressing questions of inequality and poverty. Students have great opportunities to work closely with our faculty and teaching staff; our wide range of courses offers undergraduates both breadth and depth in their study of sociology.

For graduate students we offer an excellent Master’s and PhD programs. Our MA program has long provided outstanding training as preparation for PhD programs or for work in non-profit organizations, businesses, and government agencies. Our PhD program offers advanced training, in general sociological theory and cutting edge methodologies for the analysis of social data, with particular emphasis on expertise in the analysis of social inequalities and social institutions.
Programs

• Sociology, BA (p. 1165)
• Sociology, MA (p. 1168)
• Sociology, Minor (p. 1170)
• Sociology, PhD (p. 1170)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Aneesh</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marcus Britton</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Celeste Campos-Castillo</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Esther Chan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Yale University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noelle Chesley</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cary Gabriel Costello</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gordon Gauchat</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Connecticut</td>
<td></td>
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</tr>
<tr>
<td>Jennifer A. Jordan</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-San Diego</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timothy O'Brien</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Indiana University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kent Redding</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of North Carolina-Chapel Hill</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aki Roberts</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John M. Roberts Jr.</td>
<td>Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sociology, BA

Everyone is part of multiple social groups. Your local community, your ethnic group, your religious organization, your state, your club or team—these are all examples of groups to which you might belong. The Sociology major at UWM offers students a chance to better understand these groups and the people within them. Students explore the social causes and consequences of human behavior, including topics such as political movements, population shifts, housing patterns, racism, gender inequality, the legal system, the medical profession, crime, families, sexuality, workplace organization, food cultures, and more.

UWM students in Sociology can customize their major. Beyond the core courses that all majors take, students have many electives to choose from, and they can take a broad array of courses or become more specialized by choosing electives focused around particular topics of interest. Our graduates are known for their strong knowledge of the field as well as exceptional technical skills that are highly desirable. Sociology is a social science and relies on data, statistics and research to form theories and draw conclusions. Students in UWM’s Sociology program learn how to process, analyze and synthesize large volumes of information in a logical and consistent manner using the latest software tools, a skill that has gotten them noticed by employers from businesses and government agencies that rely on data analysis to make informed decisions.

Sociology is also one of UWM’s majors available entirely online for students that wish to earn their degree from a distance. All classes required for the major can be taken online, or students can mix-and-match and take some online and some traditional classes.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
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<td></td>
<td>MATH 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or PHILOS 111 Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 116 College Algebra</td>
<td></td>
</tr>
</tbody>
</table>
Sociology, BA

Or equivalent course

Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
  Two years (high school) of a single foreign language
  Two semesters (college) of a single foreign language
  Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
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<td>Algebraic Literacy II</td>
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</tr>
<tr>
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<td>Introduction to Logic - Critical Reasoning</td>
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<td>or PHILOS 111</td>
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<td>3</td>
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<td>MATH 175</td>
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1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

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<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.
Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Sociology Major Requirements

Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

The major in sociology requires a minimum of 30 credits including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 361</td>
<td>Research Methods in Sociology (satisfies L&amp;S research requirement)</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 375</td>
<td>Social Theory</td>
<td>3</td>
</tr>
<tr>
<td><strong>Additional Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 21 additional credits</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

* With the approval of the undergraduate advisor, students who have completed an elementary statistics course in another discipline may be exempted from the SOCIOL 261 requirement.

At least 15 credits must be in upper-division (300 level and above) sociology courses taken in residence at UWM.

Students in the Schools of Education and Social Welfare should consult their programs regarding social science requirements.

Sociology courses often are cross-listed with several certificate programs and interdepartmental majors.
Declare Your Sociology Major with a Faculty Advisor

Students wishing to declare a Sociology major may do so in-person or online. For more information, please visit this page (https://uwm.edu/sociology/undergraduate/declare-your-major/).

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmiwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Sociology majors who have maintained at least a 3.00 GPA overall, a 3.500 GPA in all courses attempted for the major, and a 3.500 in all advanced-level (numbered 300 and above) courses attempted for the major are awarded the distinction “Honors in the Major” when they graduate. An “Honors in the Major” notation will appear on the student’s transcript.

Sociology Honor Society & Awards

In addition, majors and minors who maintained at least a 3.300 GPA overall and a 3.000 GPA in courses taken for the major are invited to join Alpha Kappa Delta, the International Sociology Honor Society. Sociology faculty members annually select academically talented majors or minors for both the “Distinguished Scholar Award” as well as the “Joan W. Moore Service Scholar Award.” Both awards are presented to an accomplished junior or senior in the major or minor each spring at the department’s award ceremony.

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Department directly, sociology@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/letters-science/advising/contact-advising/

Sociology, MA

The UWM Department of Sociology established its MA program in 1964, and since that time many of the program’s graduates have gone on to great success in professional careers and further academic study. Our Department is a diverse community of deeply engaged faculty and graduate students, and our MA program is designed to promote students’ academic and professional growth. The core course sequence for MA students provides a strong foundation in sociological theory, research, and analysis, while elective courses and faculty mentoring help develop students’ expertise in their chosen areas of sociological interest.

Graduate students in the UWM Department of Sociology come from a wide variety of backgrounds. We welcome applications from prospective students with a Bachelor’s degree in sociology, as well as those with degrees in other fields who have developed a passionate interest in sociology. Please visit the Graduate School Future Master’s Student webpage to learn about graduate study at UWM and life in Milwaukee.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found
The MA in Sociology requires a minimum of 30 graduate credits.

### Credits and Courses

The MA in Sociology requires a minimum of 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 701</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SOCIOL 715</td>
<td>Systematic Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 750</td>
<td>Research Methods in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 760</td>
<td>Advanced Statistical Methods in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a 900-level sociology seminar course 3

Up to five credits of SOCIOL 790, may be taken by students who elect the thesis/paper capstone option.

With permission of the student’s advisor, up to six graduate credits may be taken outside the department in courses related to the individual’s plan of study. No more than six credits of undergraduate/graduate courses (excluding those previously taken as an undergraduate), taken at the graduate level, may be applied toward meeting degree requirements. No more than six credits in SOCIOL 799 may count toward the degree.

### Admission

New graduate students are admitted to the MA Program in Sociology only for the fall semester. Completed applications should be received by the department no later than January 10th of the year the applicant intends to start.

All applicants must meet the UWM Graduate School’s requirements for admission to the MA program in Sociology. In addition, applicants to the MA program must:

1. Provide three letters of recommendation from persons, preferably faculty, familiar with the applicant’s scholastic achievement and potential.
2. Submit a sample of scholarly writing, a minimum of five pages in length.

### Financial Aid

The major source of financial assistance for graduate students in sociology is employment as a teaching assistant. Assistantships are awarded every academic year on a competitive basis and may be renewed for an additional year; they include a stipend, full tuition remission and eligibility for low-cost health insurance. To apply for a teaching assistantship, students should complete a Teaching Assistantship Interest Form and submit it to the Director of Graduate Studies. The deadline for receipt of that form is January 10th.

Graduate students also are eligible for fellowships awarded by the Graduate School on a competitive basis. Additional information on the types and availability of fellowships may be obtained directly from the Graduate School.

### Advising Procedures

Upon admission, the Director of Graduate Studies will serve as the student’s advisor. An initial advisor will be assigned in the student’s first semester in residence. The initial advisor assists students in planning their course programs, and in scheduling other degree requirements.

When the MA student begins to formulate a topic for a thesis, a master’s paper, or MA examination, the student selects a member of the Sociology Graduate faculty as her/his committee chair. This person then becomes the student’s main curriculum advisor for the remainder of the time in the program.

### Additional Requirements

#### Good Standing

To retain good standing in the Department of Sociology, an enrolled graduate student must maintain a minimum 3.0 cumulative GPA and demonstrate progress toward completion of the course and/or thesis requirements each semester.

#### Thesis, Master’s Paper, or the MA Examination Options

The student must write and defend an acceptable thesis, a master’s paper, or write an examination in fulfillment of the requirements for the Master of Arts degree in Sociology.

#### Thesis or Master’s Paper

The thesis or master’s paper is intended to be a relatively limited research exercise, focused on a manageable topic. It does not necessarily have to involve original research. Acceptable thesis or master’s paper options include, but are not limited to, collection of data for hypothesis testing or exploratory research, secondary analysis of available data, theoretical critique, conceptual analysis and library research on a clearly defined problem. In general, students are encouraged to utilize existing data rather than collect new data unless they are confident that they have adequate resources (including time) to collect data sufficient for their purposes.

By the end of the third semester, students should complete a proposal for the MA thesis or paper. The proposal will reflect the formulation of a research problem and the development of a plan for its empirical investigation. Once a proposal is successfully defended, it constitutes an agreement between the student and the MA committee.

Students must prepare the thesis or master’s paper under the direction of their committee, receive approval that it meets professional standards, and defend it at an oral examination. The master’s paper is normally the length of a journal article (about 30 pp.). Students who choose to write a thesis should consult the Graduate School Thesis and Dissertation Formatting (http://uwm.edu/graduateschool/thesis-dissertation-formatting/) page. The thesis must be prepared according to these format requirements.

### MA Examination

The Master of Arts examination option is based on a bibliography developed by the student in consultation with his/her committee. The bibliography will represent both classical statements and recent debates in at least one area of sociological specialization. Students are encouraged to develop the bibliography by the end of the third semester of residence.

The examination itself will be a set of three questions developed by the MA committee, from which the student must choose two. The student will have two weeks to write a take-home examination. The advisor...
and two other faculty members will grade the examination. Within two weeks of the completion of the written examination, there will be an oral examination on the same material.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Sociology, Minor**
Everyone is part of multiple social groups. Your local community, your ethnic group, your religious organization, your state, your club or team—these are all examples of groups to which you might belong. The Sociology minor at UWM offers students a chance to better understand these groups and the people within them. Students explore the social causes and consequences of human behavior, including topics such as political movements, population shifts, housing patterns, racism, gender inequality, the legal system, the medical profession, crime, families, sexuality, workplace organization, food cultures, and more.

UWM students in Sociology can customize their minor. Beyond the core courses that everyone takes, students have many electives to choose from, and they can take a broad array of courses or become more specialized by choosing electives focused around particular topics of interest. Sociology is a social science and relies on data, statistics and research to form theories and draw conclusions. Students in UWM’s Sociology program learn how to process, analyze and synthesize large volumes of information in a logical and consistent manner using the latest software tools, a skill that has gotten them noticed by employers from businesses and government agencies that rely on data analysis to make informed decisions.

The Sociology minor is available entirely online for students that wish to earn their degree from a distance. All classes required for the minor can be taken online, or students can mix-and-match and take some online and some traditional classes.

**Requirements**
Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The minor in sociology requires 18 credits distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology 1</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 361</td>
<td>Research Methods in Sociology 2</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 375</td>
<td>Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select any two sociology courses at the 300 level or above (minimum 6 credits)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 3 credits of SOCIOL at any level 3

Total Credits 18

1 With the approval of the undergraduate advisor, minors may substitute an elementary statistics course from another discipline for the SOCIOL 261 requirement.

2 Those who have completed a methods course in a related discipline may be exempted from the SOCIOL 361 requirement, with the approval of the undergraduate advisor. Students who receive exemption from SOCIOL 361 must take an additional upper-division Sociology course for the minor.

**Declare Your Sociology Minor with a Faculty Advisor**
Students wishing to declare a Sociology minor may do so in-person or online. For more information, please visit this page (https://uwm.edu/sociology/undergraduate/declare-your-minor/).

**Contact Information**
Current Students contact the Department directly, sociology@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/sociology/undergraduate/

**Sociology, PhD**
The UWM Department of Sociology established its PhD program in 2011, and the program’s first graduate completed the degree in 2015. Our Department is a diverse community of deeply engaged faculty and graduate students, and our PhD program is designed to promote students’ academic and professional growth. The PhD is the highest degree conferred by the university, and is distinguished by its emphasis on creative scholarship representing original research. The program prepares students for research and teaching careers in colleges and universities, as well as research and policy positions in a wide variety of applied settings.

The core course sequence for PhD students provides a strong foundation in sociological theory, research, and analysis, while elective courses and faculty mentoring help develop students’ expertise in their chosen areas of sociological interest. Doctoral students pursue specialization within one of two broad focal areas—Social Inequalities (including race/ethnicity, gender, sexuality, and class) and Social Institutions (including politics, education, family, crime, work, organizations, health, science, and culture.) The Department works with students to develop advanced skills in both research and teaching.

Graduate students in the UWM Department of Sociology come from a wide variety of backgrounds. We welcome applications from prospective students with a Master’s degree in sociology, as well as those with degrees in other fields who have developed a passionate interest in sociology. We also permit BA holders to directly apply to our PhD program; if such an application seems more appropriate for the MA program, we will move it to the MA applicant pool without requiring the student to pay an additional application fee. Please visit the Graduate School’s Future Students webpage to learn about graduate study at UWM and life in Milwaukee.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found...
Admission

New graduate students are admitted to the PhD Program in Sociology only for the fall semester. Completed applications should be received by the department no later than January 10th of the year the applicant intends to start.

An applicant must meet the UWM Graduate School's requirements for admission to the PhD program in Sociology. In addition, applicants to the PhD program must:

1. Possess a master's degree in Sociology or be in the process of completing a master's degree at the time of application, with the expectation of completion of the degree prior to beginning the PhD program.
   a. Students without a master's degree in sociology are eligible for admission to the PhD program if:
      i. they have a bachelor's degree in sociology or a related field and they show exceptional preparation for graduate school or
      ii. they have a master's degree in a closely related field.
   b. In addition to the requirements for the PhD, all students must
      i. complete the required courses for the master's degree in sociology or comparable courses from other institutions and
      ii. earn or transfer 24 credits in graduate-level work in sociology or a closely related field. If fewer than 24 credits are ruled acceptable for the doctoral program, the student will have to make up those credits.

2. Submit a copy of the applicant's MA thesis or paper, or, if an applicant did not complete a thesis, a scholarly writing sample of original sociological research.

3. Provide three letters of recommendation from persons, preferably faculty, familiar with the applicant's scholastic achievement and potential.

4. Submit a cogent personal statement detailing the individual's reasons for pursuing doctoral study in Sociology.

5. Submit GRE (http://uwm.edu/graduateschool/admission/#gre) scores taken within the last five years.

Financial Support

The major source of financial assistance for graduate students in sociology is employment as a teaching assistant. Assistantships are granted every academic year on a competitive basis and may be renewed for an additional three years and include a stipend, full tuition remission and eligibility for low-cost health insurance. To apply for a teaching assistantship, students should complete a Teaching Assistantship Interest Form and submit it to the Director of Graduate Studies. The deadline for receipt of that form is January 10th.

Graduate students also are eligible for fellowships awarded by the Graduate School on a competitive basis. Additional information on the types and availability of fellowships may be obtained directly from the Graduate School.

Reapplication/Readmission

Students who receive the MA in Sociology from UWM must reapply to be considered for admission into the PhD program.

Credits and Courses

The program will require 36 graduate credits of coursework at the post-master's level. We expect entering students to have completed the following courses or their equivalents in the process of earning a master's degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 715</td>
<td>Systematic Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 750</td>
<td>Research Methods in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 760</td>
<td>Advanced Statistical Methods in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who have not taken these courses prior to admission to the PhD program will be required to complete them in the first year of their pursuit of a doctoral degree. Credits earned in these courses will not count as part of the 36 credits required at the post-master's level.

At the PhD level, students must complete the following coursework:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 910</td>
<td>The Sociology of Inequality</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 911</td>
<td>The Sociology of Institutions</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 982</td>
<td>Advanced Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional elective course in social science methodology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialization</td>
<td>Select three courses designated in one of the following specialty areas:</td>
<td>9</td>
</tr>
<tr>
<td>Social Inequalities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Institutions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select at least 9 elective credits</td>
<td>9</td>
</tr>
<tr>
<td>Select up to 6 dissertation credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Additional Requirement</td>
<td>Ph.D. students with Teaching Assistant positions must complete the following 1 credit course (which is offered each spring):</td>
<td>0-1</td>
</tr>
<tr>
<td>SOCIOL 794</td>
<td>Proseminar: The Teaching of Undergraduate Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 36-37

Doctoral students may not accumulate more than 6 credits in U/G courses nor more than 6 credits of independent study without the approval of the Sociology Director of Graduate Studies. Of the 60 required credits, no more than 12 credits outside of Sociology may be counted toward the doctoral degree without the approval of the Sociology Director of Graduate Studies.

Foreign Language or Specialized Skill

This requirement may be satisfied by demonstrating one of the following:

- Proficiency in a foreign language useful in the student's career, indicated by the completion of two courses at the upper division level (numbered 300 and above or requiring junior standing) with at least a B average. Credits satisfying this requirement will not count toward the credits required for the PhD degree.
- Proficiency in mathematical, statistical, or computer skills. Completion of the required methods and statistics sequence (SOCIOL 750, SOCIOL 760, SOCIOL 982—or their equivalents) and an additional 3 credits of graduate coursework in statistics related to the social sciences with at least a B average will satisfy this requirement.
Additional Requirements

Major Professor or Advisor
Each new student will be assigned an initial advisor from among the department's faculty. By the second year in the program, students will be expected to select their own major professor and, in consultation with this advisor, a committee for preliminary examinations and the dissertation. The major advisor for each student, assisted by the student's dissertation committee and the director of graduate studies, will take primary responsibility for guiding the student successfully through the program and into the labor market and career opportunities.

Preliminary Examination
All doctoral students are required to complete preliminary examinations in two specialty areas after completing 27 credits at the post-master's level. The areas are selected by the doctoral candidate in consultation with the student's advisor and other members of the graduate faculty. Examination areas are limited to those subfields or subdisciplines that are within the student's area of specialization and widely recognized areas within sociology. The disciplinary subfields must be broader than, but related to, the focus of the student's dissertation and must be approved by the Department's Graduate Studies Committee. Examinations will consist of the student answering three or more questions from a list containing at least five, as determined by the student’s committee. Candidates write their answers on one full day in September and March.

An empirical or substantive paper may be substituted for one preliminary examination. The empirical paper is read and evaluated by two members of the graduate faculty in sociology, in addition to the student's major professor. The length and quality of the paper should be similar to that of a journal article. Students should use the format for the journal to which they would like to submit the paper. The paper also may be in the style of a full length Annual Review of Sociology piece or similar article.

Students who do not pass an examination on the first attempt will be provided feedback on their performance and be allowed to take the exam a second time but must do so within 9 months of the administration of the first exam. Students who do not complete the examination successfully upon the second attempt will not be allowed to continue in the program.

Dissertation
The dissertation is a major piece of original research representing a substantial contribution to sociological scholarship. In order to become eligible for dissertation status the student must complete a successful oral defense of a dissertation proposal before the student's doctoral committee.

The dissertation itself, under the supervision of the major professor and in collaboration with a dissertation committee, must demonstrate the ability of the candidate to formulate a research topic and pursue an independent and original research representing a substantial contribution to sociological scholarship. The practices necessary for completion of the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and three additional graduate faculty members (at least two of whom must be from the UWM Department of Sociology graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research and the results of the research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate’s oral remarks, the dissertation committee will vote on passing the candidate's dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

Time Limit
All components of the PhD program must be completed within 10 years of matriculation.

Spanish and Portuguese

Through effective communicative instruction, we prepare students to read, speak, write, and understand Spanish and Portuguese. Our course offerings reflect and respond to the diversity of our students, who include: heritage speakers, non-traditional students, professionals in a variety of fields, as well as traditional students. We encourage students to participate in study abroad programs and second-language activities as a means of improving proficiency.

Faculty are actively engaged in advancing knowledge in their respective areas of expertise and striving to link, in the manner most beneficial for students, critical and scholarly work to classroom instruction and advising activities.

We assume a leadership role in disseminating Hispanic, U.S. Latino, and Luso-Brazilian culture, not only to the campus community but to the Milwaukee area and the state of Wisconsin as well.

Programs

• Business Spanish, Minor (p. 1173)
• Portuguese, Minor (p. 1174)
• Spanish for Health Professionals, Undergraduate Certificate (p. 1174)
• Spanish, BA (p. 1176)
• Spanish, MA (p. 1179)
• Spanish, Minor (p. 1181)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nancy Bird-Soto</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Santiago Daydi-Tolson</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>César Ferreira</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stellia Jordán</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R. John McCaw</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>
In addition to the major and minor in Spanish, students can also complete a minor in Business Spanish, with a focus on the business and legal terminology and concepts that are relevant within the United States and the 21 countries in which Spanish is the official language. The minor in Business Spanish requires the completion of 18 credits, including two required courses in Business and Legal Spanish. Students in the Lubar School of Business must complete the requirements in the Business Students Track, while all other students complete the Non-Business Students Track.

### Requirements

The minor in Business Spanish requires the completion of 18 credits as indicated below. At least 9 of the 300-level or above credits must be taken in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Students in the Lubar School of Business must complete the requirements in the Business Students Track. All other students complete the Non-Business Students Track. Students are responsible for completing any prerequisite courses as well.

### Business Students Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following options:</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Option 1:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPANISH 203</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Third-Semester Spanish</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPANISH 204</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fourth-Semester Spanish</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Option 2:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPANISH 308</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Writing and Reading</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPANISH 318 or SPANISH 319</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Speaking and Listening</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or SPANISH 319</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPANISH 332</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPANISH 342</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business and Legal Spanish II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS ADM 330</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS ADM 201 or BUS ADM 360</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Financial Accounting</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>or Principles of Marketing</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Select 6 credits in Spanish courses numbered 300 and above</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Credits</td>
<td></td>
<td>18-19</td>
</tr>
</tbody>
</table>

1. An appropriate internship experience (for example, with a firm doing business in Latin America or Spain) may substitute for one of the required courses in the minor. Such substitutions must be approved by the Department of Spanish and Portuguese in consultation with the Lubar School of Business Administration, which will assist students in finding an internship.

2. Students who test beyond one/both of these courses and do not receive retroactive credits for one/both of these courses must substitute a course or courses from among SPANISH 333, SPANISH 341, SPANISH 348, SPANISH 350, or SPANISH 391.

### Non-Business Students Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required 1</td>
<td>SPANISH 332</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPANISH 342</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS ADM 330</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS ADM 201 or BUS ADM 360</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Introduction to Financial Accounting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or Principles of Marketing</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Select 6 credits in Spanish courses numbered 300 and above</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Credits</td>
<td></td>
<td>18-19</td>
</tr>
</tbody>
</table>

1. An appropriate internship experience (for example, with a firm doing business in Latin America or Spain) may substitute for one of the required courses in the minor. Such substitutions must be approved by the Department of Spanish and Portuguese in consultation with the Lubar School of Business Administration, which will assist students in finding an internship.

### Contact Information

Current Students contact Senior Lecturer Stellia Jordan, schessma@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
Portuguese, Minor

UW-Milwaukee is the only other university in Wisconsin besides UW-Madison that offers Portuguese on a regular basis. We offer an undergraduate minor in Portuguese.

Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad (http://uwm.edu/cie/study-abroad/) experiences available in Brazil and Portugal for a semester or year.

Requirements

The undergraduate minor in Portuguese requires 18 credits of Portuguese taken in courses numbered PORTUGS 203 or above. Nine credits must be taken at the 300 level or above in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Students with no previous Portuguese language experience should enroll in PORTUGS 103. After consultation with the Portuguese coordinator, a student may enroll in a course higher than PORTUGS 103, if appropriate. Students placed into a course beyond the PORTUGS 103 level who complete their first course with a grade of at least B may receive retroactive credits, to a maximum of 14 credits, for the courses leading to the one into which they are placed. Courses that generate Credits for Demonstrated Equivalent Preparation (retroactive credits) are the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTUGS 104</td>
<td>Second-Semester Portuguese (4 retroactive credits)</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 203</td>
<td>Third-Semester Portuguese (8 retroactive credits)</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 204</td>
<td>Fourth-Semester Portuguese (11 retroactive credits)</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 310</td>
<td>Advanced Composition and Conversation (14 retroactive credits)</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Susana Antunes, antunes@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/portuguese-program/

Spanish for Health Professionals, Undergraduate Certificate

The Spanish for Health Professionals (SHP) Certificate Program is designed to provide students with the language skills and cultural knowledge needed to help Spanish-speakers successfully negotiate the health care system. Graduates of the program leave not only with proficiency in medical Spanish, but also with an understanding of the Hispanic culture and how that culture may affect healthcare practices and the delivery of health services.

This certificate will enhance the credentials of individuals seeking a career in direct patient care such as doctor, nurse, physician assistant, nurse practitioner, or physical therapist, or anyone who works with Spanish-speakers in a healthcare setting such as insurance providers or healthcare navigators.

Hispanic and Latino groups are the largest minority group in the United States, and Spanish-speakers constitute the fastest-growing segment of the U.S. population. In Milwaukee alone, Spanish-speakers make up 14 percent of the population. As these populations grow, so does the need for healthcare workers who can communicate with and advocate for Spanish-speaking patients.

Students in the program gain expertise in the language of health care, in Spanish, including colloquial Spanish; an understanding of cultural differences that impact the delivery of health care services to Hispanic populations; and knowledge of the health care concerns of many different groups of Spanish-speakers. There is a language-intensive track for students who need more education in that area or a health-focused track for individuals who may have some Spanish fluency but need more background in medicine and science.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Spanish for Health Professionals Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to individuals who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree candidates, individuals must meet regular University admissions requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students will receive the certificate upon completion of the program requirements.

Requirements

There are two tracks in the Certificate, a language-intensive track for students in health professions areas who are interested in working with Hispanic populations and a health-focused track for students with some Spanish competency who desire familiarity with the health-related vocabulary in Spanish. To obtain the certificate, students must complete at least 18 credits in courses approved for the Spanish for Health Professionals certificate, with at least 12 credits taken in residence at UWM and a minimum of 9 of the residence credits taken in L&S courses at the advanced level (courses numbered 300 and above). A maximum of 6 credits in a combination of independent study, internship, and study abroad courses may count toward the certificate. Students must earn a 2.500 GPA in all certificate courses, including transfer work, and in the courses for the certificate taken at UWM. Courses for the certificate may not be taken on a credit/no credit basis. The certificate requirements are as follows:
## Spanish for Health Professionals, Language-Intensive Track

The Language-Intensive Track requires completion of at least 18 credits as follows, and is not available to Spanish majors and minors; they must select the health-focused track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 318 or SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 338</td>
<td>Spanish for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits from any courses in the electives group listed for the health-focused track</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

## Spanish for Health Professionals, Health-Focused Track

The Health-Focused Track requires completion of at least 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANISH 338</td>
<td>Spanish for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 9 credits in one of the clusters below</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits from any cluster or the general electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

### Health-Focused Track Electives

#### Health Communication

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 381</td>
<td>Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 481</td>
<td>Interpersonal Issues in Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 581</td>
<td>Health Communication Interventions</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Pharmaceuticals, Medicine, and Drugs

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>HCA 212</td>
<td>Drugs Used and Abused</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 454</td>
<td>Psychopharmacology and Addiction</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Health Care Delivery Policy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 450</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 502</td>
<td>Healthcare Delivery Systems: National and International Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 244</td>
<td>Ethical Issues in Health Care: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 639</td>
<td>Health Care and Public Policy in the United States</td>
<td>3</td>
</tr>
</tbody>
</table>

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### Health: A Social Science Perspective

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 210</td>
<td>Survey of Communication Disorders (SS)</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 555</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 282</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 331</td>
<td>Sociology of Health Care</td>
<td>3</td>
</tr>
</tbody>
</table>

1. As determined by the certificate program coordinator.

### Health: A Natural Science Perspective

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 350</td>
<td>Human Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BMS 232</td>
<td>Introduction to Nutrition (NS)</td>
<td>3</td>
</tr>
<tr>
<td>HS 101</td>
<td>Introduction to Health and Disease</td>
<td>2</td>
</tr>
</tbody>
</table>

1. As determined by the certificate program coordinator.

### Global Health

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/GLOBAL 439</td>
<td>Culture and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
<tr>
<td>NURS 401</td>
<td>Global Patterns of Disease</td>
<td>3</td>
</tr>
<tr>
<td>NURS 475</td>
<td>Global Health: Ethics and Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>NURS 683</td>
<td>Healthcare of Immigrants and Refugees</td>
<td>3</td>
</tr>
<tr>
<td>NURS 684</td>
<td>Death and Dying Around the World</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches</td>
<td>3</td>
</tr>
<tr>
<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care (CD SS)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 380</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Study abroad courses in Spanish-speaking countries may be accepted with the approval of the Certificate Program Committee. Other courses not on this list but relevant to Spanish for Health Professionals may be accepted with the approval of the Certificate Program Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

### Contact Information

Current Students contact Senior Lecturer Maria Sotomayor, mes4@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
Spanish, BA

Spanish is spoken by 400 million people worldwide and is an official language in 21 countries and a number of international organizations. Spanish is among the three most spoken languages in the world and, by some estimates, has more native speakers than English. Fluency in Spanish opens countless career opportunities for students.

A Spanish major provides exceptional preparation for students interested in a career in business, international affairs, social services, government, health care, communication, translation, marketing, teaching or any profession that requires bilingual written or oral communication skills and cultural understanding. Whether you already have some Spanish communication skills or are starting at the beginning, you will develop both your language capabilities as well as your cultural competence as part of our major. Classes focus on not only language, but literature, linguistics, customs, values, and culture so that students leave UWM ready to speak, read, write and understand Spanish in business and social contexts. Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad experiences available in Argentina, Chile, Ecuador, Mexico, Peru and Spain. Some students go short-term such as a week or two while others choose to stay abroad for a summer program, a semester or a year.

A Spanish minor and a Business Spanish minor are also available. The Spanish minor can be completed with most Spanish courses at the 300-level and above, while the curriculum for the Business Spanish minor is more structured, with required courses in Business and Legal Spanish. In addition, students who plan to pursue healthcare careers will find value in our Certificate in Spanish for Health Professionals (http://uwm.edu/letters-science/programs/?discipline=Spanish+for +Health+Professionals). The certificate is similar to a minor in terms of the number of credits required and can enhance a student’s resume. This certificate can be structured with a health focus for students who already have a high level of proficiency in Spanish but want to expand their knowledge of different areas of healthcare, (more classes in healthcare delivery policy; pharmaceuticals, medicine, and drugs; and health communication) or with a language focus for students who already have a background in healthcare but want to develop their language proficiency in Spanish (more classes in advanced Spanish).

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
</tbody>
</table>
$$\text{Or equivalent course}$$
| **Part B** | Course designated as QL-B; may be completed through a major-specific course requirement |         |
|      | Arts |         |
| Select 3 credits | | 3 |
|      | Humanities |         |
| Select 6 credits | | 6 |
|      | Social Sciences |         |
| Select 6 credits | | 6 |
|      | Natural Sciences |         |
| Select 6 credits (at least two courses including one lab) | | 6 |
|      | UWM Foreign Language Requirement |         |
| Complete Foreign Language Requirement through: |         |
| Two years (high school) of a single foreign language | |         |
| Two semesters (college) of a single foreign language | |         |
| Or equivalent | |         |
|      | UWM Cultural Diversity Requirement |         |
| One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement | |         |
| $^1$ Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses. | |         |

**College of Letters & Science Requirements**

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or
2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

   1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

   **Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

   **Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

   Completed in one of the following ways:

   - Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)
   - Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0-18</td>
</tr>
</tbody>
</table>

   Completed in one of the following ways:

   - Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above
   - Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.
   - Complete 9 credits in combination of the two options above.

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Arts
   - Select 3 credits
   Humanities
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.*

**Social Sciences**
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.*

**Natural Sciences**
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.*

**Cultural Diversity**
Complete 3 credits in a course with Cultural Diversity (CD) designation.**

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

**VII. The Minor**
The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Spanish Major Requirements**
The major in Spanish requires 33 credits in Spanish courses at the 300 level and above, at least 15 of which must be taken in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Students must complete the following requirements:

SPANISH 380 and SPANISH 595 do not count toward the major.

All majors are required to take an exit examination, which is offered on campus near the end of each semester. It is recommended strongly that they take this exam during their last semester in the Spanish program.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 318 or SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 350</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 474</td>
<td>Survey of Spanish Literature and Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research Requirement**
Select one of the following: 1

1. SPANISH 506 Seminar in Spanish Literature:
2. SPANISH 507 Seminar in Spanish-American Literature:
3. SPANISH 508 Seminar in Hispanic Literature:
4. SPANISH 541 History of the Spanish Language
5. SPANISH 545 Seminar in Hispanic Linguistics:
6. SPANISH 570 Seminar in Spanish Golden Age Literature:
7. SPANISH 571 Seminar in Spanish-American Colonial Literature and Civilization:
8. SPANISH 572 Seminar on Cervantes:
9. SPANISH 575 Seminar in 18th & 19th Century Spanish-American Literature & Civilization:
10. SPANISH 577 Seminar in Modern Spanish-American Literature and Civilization:
11. SPANISH 578 Seminar in Modern Spanish Literature and Civilization:

**Electives**
Select a minimum of 9 additional credits at the 300 level or above (see below) 9

**Total Credits** 33

1 Students must complete a research experience within the context of one of the following courses at the 500 level. All 500-level courses include a research component that serves to develop students' ability to do independent research in a specific field of interest. Both the oral presentation and the written research paper will be evaluated and rated in the areas of language acquisition/usage as well as research ability/synthesis.

**Electives**
Students must take a minimum of 9 additional credits at the 300 level or above. All 9 credits can be taken from the following list of electives as well as from the 500-level courses listed under the research requirement:
### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the Major

Spanish majors who meet the following requirements may apply to the undergraduate advisor to graduate with Honors in the Major:

1. Maintain at least a 3.500 GPA in all advanced credits that count toward the major;
2. Maintain at least a 3.000 GPA in all graded courses attempted at UWM; and
3. Take at least two 500-level Spanish courses.

### Honors in the College of Letters and Science

#### Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

#### Contact Information

Current Students contact Senior Lecturer Stellia Jordan, schessma@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/

### Spanish, MA

The Department of Spanish and Portuguese offers a program of graduate study leading to a Master of Arts degree that focuses on the study of the Spanish cultures, language, linguistics, and literatures of the Hispanic world. Spanish MA graduates who subsequently wish to pursue the PhD are very advanced in the process of mastering the area in which they wish to specialize in their doctoral studies. Those who choose not to continue studying toward a PhD or a career in teaching will be able to pursue employment in other fields that require full proficiency in the Spanish language as well as mastery of Hispanic literature, culture, and linguistics.

The Department of Spanish and Portuguese has identified five learning outcomes for our MA majors in Spanish. These educational goals

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 315</td>
<td>Spanish Immersion Experience</td>
<td>1</td>
</tr>
<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 333</td>
<td>Advanced Spanish Grammar</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 338</td>
<td>Spanish for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 342</td>
<td>Business and Legal Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 348</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 377</td>
<td>Introduction to Galician Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 391</td>
<td>Social and Historical Issues in the Hispanic World</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 443</td>
<td>Spanish Phonetics and Phonology</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 444</td>
<td>Spanish Syntax and Morphology</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 446</td>
<td>Hispanic Sociolinguistics</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 491</td>
<td>Topics in Hispanic Culture</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select a maximum of 3 credits from the following, which are taught in English:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANISH 371</td>
<td>Introduction to Latino Literature in English</td>
<td></td>
</tr>
<tr>
<td>SPANISH 373</td>
<td>Topics in Latino Literature in English:</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture:</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation:</td>
<td></td>
</tr>
</tbody>
</table>
relate closely to the National Standards for Foreign Language Learning, as recommended by the American Council of Teachers of Foreign Languages.

Students will be able:

1. To communicate with an advanced or high-level of Spanish proficiency in all four skill areas including listening, reading, writing, and speaking.
2. To develop an advanced understanding and appreciation of Hispanic cultures and communities throughout the world, and analyze and draw cross-cultural differences which will be essential to future careers in a growing global environment.
3. To build a foundation of knowledge in the areas of Spanish and Spanish-American literature, culture, and linguistics, which will give students the breadth necessary for subsequent specialization in doctoral studies.
4. To develop and expand research and analytical skills within the area of Hispanic Studies, including literary analysis, cultural studies, and linguistic analysis.
5. To develop basic reading competencies in an additional romance language to prepare students for further research and provide broader career options.

The Department also participates, and works closely, with the Center for Latin American and Caribbean Studies.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet general admission requirements for the Graduate School, as established by the graduate faculty of the university, plus the following requirements to be considered for admission:

1. A bachelor’s degree with a major in Spanish, foreign languages with an emphasis in Spanish, comparative literature, Hispanic linguistics, or translation; or with a combination of courses that will, in the opinion of the Department, allow the student to participate fully in the program.
2. A 3.0 grade point average in the last 60 credits of undergraduate coursework.
3. A narrative statement of intent, written in both Spanish and in English.
5. An academic writing sample in Spanish.
6. Three letters of recommendation from former professors or advisors.

Applicants who do not have the requisite 3.0 grade point average in the last 60 credits of the undergraduate degree may be considered for admission on probation. Students will be removed from probation at the end of their first semester of enrollment if they achieve at least a 3.0 grade point average.

Credits and Courses
A content-based examination is mandatory for all incoming students. The results of this examination are used to develop the program of study. Students with insufficient preparation for graduate study in one or more areas may be admitted with specific, program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

A minimum of 30 graduate credits beyond the baccalaureate degree is required for the MA in Spanish. All students must demonstrate reading competency in a second Romance language. In order to do so, they may take the departmental graduate reading exam or complete two semesters in another language. Courses taken to complete this requirement do not count toward the minimum credits required for the MA.

Specific course requirements and credit distribution are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 701</td>
<td>Historical Linguistics (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 720</td>
<td>Approaches to Hispanic Literary Theory and Criticism (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits in Spanish or Spanish-American literature and culture courses at the 700 level or above</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in language and/or linguistics courses in Spanish</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of electives in Hispanic culture, language, linguistics, literature, thesis, or related courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

All teaching assistants are required to enroll in MALLT 700 or an equivalent course during their first year. This course counts toward the 6 credits of electives.

No 300-level courses will apply toward the degree, and a maximum of six (6) graduate credits in 400-level U/G courses may be used to fulfill degree requirements.

The MA degree in Spanish offers both non-thesis and thesis options.

Additional Requirements

Major Professor as Advisor
All students must have a major professor who serves as an advisor and supervises their course of study. The Director of the MA program acts as the initial advisor for all entering students. By the end of the second semester, students will be matched with an advisor based on their academic interest.

Non-Thesis Option
Students pursuing the non-thesis option must complete a minimum of thirty (30) credits of acceptable graduate-level coursework (including the courses specifically required) and receive a passing grade on the final comprehensive examination.

Thesis Option
Students pursuing the thesis option must complete a minimum of twenty four (24) credits of acceptable graduate-level coursework, successfully
defend a thesis for which a maximum of six (6) credits is granted, and receive a passing grade on the final comprehensive examination.

Students in the thesis option should choose an area of specialization for the thesis as early as possible. After a thesis topic is chosen, students, with the approval of the major professor, select two additional members of the graduate faculty in the area of concentration to serve as the thesis committee. A member of the graduate faculty specializing in the student’s area of concentration acts as the thesis director and chair of the committee. Students writing a linguistics-based thesis may use either the APA, LSA, or MLA style. All other theses must be written following the MLA style.

Upon the approval of the Departmental Graduate Studies Committee, a student may be allowed to write the Spanish MA thesis in Spanish; each request will be examined on an individual basis to ensure the highest quality of theses and the linguistic ability of each petitioner. Those approved to write the thesis in Spanish must also provide an abstract written in English.

Comprehensive Final Examination
Students enrolled in the thesis and non-thesis options take the same MA comprehensive examination. Students are urged to take the examination no later than the fourth semester of graduate study. The examination may be repeated once.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Spanish, Minor
Spanish is spoken by 400 million people worldwide and is an official language in 21 countries and a number of international organizations. Spanish is among the three most spoken languages in the world and, by some estimates, has more native speakers than English. Fluency in Spanish opens countless career opportunities for students.

The Spanish minor provides exceptional preparation for students interested in a career in business, international affairs, social services, government, health care, communication, translation, marketing, teaching or any profession that requires bilingual written or oral communication skills and cultural understanding. Whether you already have some Spanish communication skills or are starting at the beginning, you will develop both your language capabilities as well as your cultural competence as part of our program. Classes focus on not only language, but literature, linguistics, customs, values, and culture so that students leave UWM ready to speak, read, write and understand Spanish in business and social contexts. Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad (https://uwm.edu/cie/study-abroad/) experiences available in Argentina, Chile, Ecuador, Mexico, Peru and Spain. Some students go short-term such as a week or two while others choose to stay abroad for a summer program, a semester or a year.

The Spanish minor can be completed with most Spanish courses at the 300-level and above. Students who plan to pursue healthcare careers will find value in our Certificate in Spanish for Health Professionals (p. 1174). The certificate is similar to a minor in terms of the number of credits required and can enhance a student’s resume. This certificate can be structured with a health focus for students who already have a high level of proficiency in Spanish but want to expand their knowledge of different areas of healthcare, (more classes in health care delivery policy; pharmaceuticals, medicine, and drugs; and health communication) or with a language focus for students who already have a background in healthcare but want to develop their language proficiency in Spanish (more classes in advanced Spanish).

Requirements
The minor in Spanish consists of 18 credits at the 300 level or above, at least 9 of these in residence at UWM. These credits may include a maximum of 3 credits selected from SPANISH 371, SPANISH 373, PORTUGS 360, or PORTUGS 380. With the exception of PORTUGS 380, no literature-in-translation courses may count toward the minor. SPANISH 380 and SPANISH 595 do not count toward the minor.

The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, a 2.0 GPA on all minor credits attempted, including any transfer work, is required.

Contact Information
Current Students contact Senior Lecturer Stellia Jordan, schesm@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/spanish-portuguese/undergraduate/

Translation and Interpreting Studies
The Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree
- Interpreting, Graduate Certificate (p. 1182)
- Translation and Interpreting Studies, MA (p. 1183)
- Translation and Interpreting Studies, MA/Business Administration, MBA (p. 1185)
- Translation and Interpreting Studies, MA/Library and Information Science, MLIS (p. 1186)
- Translation, Graduate Certificate (p. 1187)
Facility

Name | Rank | Degree | School | Graduate Faculty | Emeritus Faculty
---|---|---|---|---|---
Viktorija Bilić | Assistant Professor | PhD | Heidelberg University |  |  
Anne O. Fisher | Senior Lecturer | PhD | University of Michigan |  |  
Amy Olen | Assistant Professor | MA | University of Texas |  |  
Kathryn Scholz | Senior Lecturer | PhD | University of Minnesota |  |  
Lorena Terando | Associate Professor | PhD and MT | State University of New York |  |  

Interpreting, Graduate Certificate

The demand for interpreting services in the U.S. far exceeds the supply of qualified interpreters, and the federal government estimates that job opportunities for interpreters will increase significantly faster than the average rate of job growth through 2030. The Graduate Certificate in Interpreting offers online professional training to students in any of the offered language pair. The program is designed for those who have earned an undergraduate degree, have either significant industry experience or post-graduate degrees, and are interested in language-services careers focused on interpreting.

Eligibility and Admission

Applicants to the Graduate Certificate program in Interpreting must hold a bachelor's degree with an overall grade point average (GPA) of 2.75. If the GPA is less than 2.75, the applicant must provide substantial evidence of ability to succeed in graduate-level work.

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Eligibility and Admission

Applicants to the Graduate Certificate program in Interpreting must hold a bachelor's degree with an overall grade point average (GPA) of 2.75. If the GPA is less than 2.75, the applicant must provide substantial evidence of ability to succeed in graduate-level work.

A degree in the applicant's foreign language or advanced study in that language is desirable but not required. To be eligible for admission, all applicants to the certificate program must pass a qualifying examination administered by the faculty of Translation & Interpreting Studies (TIS) (https://uwm.edu/translation-interpreting-studies/admissions/qualifying-exam/.

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Students must complete 21 credits of required courses. The following six courses (18 credits) must be completed at the graduate level:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLGN 700</td>
<td>Consecutive Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 711</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 722</td>
<td>Simultaneous Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 750</td>
<td>Advanced Modes of Interpreting</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>18</strong></td>
<td></td>
</tr>
</tbody>
</table>

Electives

In addition to the six required courses, students must complete one elective course (3 credits). In consultation with the certificate coordinator, students select their elective from among the following courses. Other courses relevant to the student's plan of study may be used to fulfill the elective requirement with the consent of the coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLGN 530</td>
<td>Business and Professional Aspects of Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 727</td>
<td>Project Management in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 728</td>
<td>Editing for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>One of the following:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRNSLGN 706</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 708</td>
<td>Introduction to Translation: German to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 707</td>
<td>Introduction to Translation: Spanish to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 719</td>
<td>Introduction to Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 704</td>
<td>Introduction to Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 413</td>
<td>Introduction to Italian to English Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLGN 702</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3</td>
</tr>
</tbody>
</table>

**One of the following:**
Certificate program time limits shall be established as follows:

**Articulation with Degree Programs**
- Examination.
- All certificate students will be required to pass a one-hour interpreting capstone requirement completed for the certificate. In addition, students must earn a B or better in all courses at the graduate level as well as a 3.0 GPA on all credits completed for the certificate. Students must earn at least an average GPA of 3.0 in courses completed (in lieu of one or more required courses) to complete the 21 credits required to earn the graduate certificate.

**Required courses completed as part of a student’s undergraduate degree will not count toward the graduate certificate. In such cases, students consult with the certificate coordinator to select appropriate elective courses (in lieu of one or more required courses) to complete the 21 credits required to earn the graduate certificate.**

**Grade Point Average Requirement**
Students must earn at least an average GPA of 3.0 in courses completed at the graduate level as well as a 3.0 GPA on all credits completed for the certificate. In addition, students must earn a B or better in all courses completed for the certificate.

**Capstone Requirement**
All certificate students will be required to pass a one-hour interpreting examination.

**Articulation with Degree Programs**
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Contact Information**
Translation & Interpreting Studies Department
Curtin Hall, 806
3243 N Downer Ave, Milwaukee, WI 53211
Phone: 414-229-3068
Phone: 414-229-5968
bddonald@uwm.edu
terando@uwm.edu

http://uwm.edu/translation-interpreting-studies/

**Translation and Interpreting Studies, MA**
UWM’s Translation and Interpreting Studies program offers programs of study in Research or Professional Translation, in four language pairs (French, German, Russian, and Spanish to English), and/or in interpreting. TIS offers two coordinated degree programs: a TIS/MLIS degree with the School of Information Studies and a TIS/MBA with the Lubar School of Business. TIS also offers coordinated 5-year bachelor’s/master’s programs: BA in French, German, Global Studies or LACUSL and MA in Translation & Interpreting Studies.

UWM graduates who earn the MA in Translation and Interpreting Studies in any of the above forms reflect sufficient preparation for gainful post-graduation employment or admission to a doctor of philosophy program at a peer or aspirational institutions, and they will:

1. Be knowledgeable about the linguistic, literary, and cultural productions of their source and target communities in the past and present; be able to situate them within a historical, cultural and discursive (interdisciplinary and/or cross-cultural) context; be familiar with several major tendencies in critical and theoretical analysis, and be able to apply them to the study of these texts.
2. Provide nuanced and sophisticated discussions (in writing and in conversation) of linguistic, literary, and cultural works in English, and when appropriate, in the target language of their field of study. This includes the ability to analyze and to incorporate critical/theoretical frameworks into their written and oral discussions of literary or cultural works.
3. Be able to perform professional skills tied to the translation and interpreting field (e.g., translate/interpret accurately in their area of specialization; create and maintain terminology database resources; efficiently and accurately conduct research related to TandI; understand broad aspects of the TandI industry).
4. Conduct independent research in Translation and Interpreting Studies. This includes the ability to develop and delimit a research question, to conduct a systematic investigation of the question, and to present or evaluate research according to standard models of analysis and argumentation.
5. Be aware of career and post-graduate opportunities that their degree makes possible, which includes knowing how to search and apply for professional opportunities or advanced study related to the MA, and participating in professional activities such as colloquia, conferences, and meetings.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Along with the Graduate School admission requirements, all applicants meet the program admission requirements. Admission is based in part on a qualifying examination that consists of a 200-250-word translation from the source to the target language and one 300-500-word essay in English.

Beyond the English proficiency required by the Graduate School, the following are required: a minimum TOEFL iBT score of 83, TOEFL CBT score of 220, or IELTS score of 6.5.

**Credits and Courses**

No credits carrying a grade below B- may be counted toward meeting the Translation and Interpreting Studies degree requirement of 30 credits.

Students choose one of three tracks in the Translation and Interpreting, MA - Professional Translation Track, Research Translation Track, and an Interpreting Track.

**Professional Translation Track**

The Professional track consists of 30 credits at the graduate level.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td></td>
</tr>
</tbody>
</table>

**Required Non-Language specific courses**

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td></td>
</tr>
</tbody>
</table>

**Required Language-specific courses (two courses in same language pair)**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 704 &amp; TRNSLTN 714</td>
<td>Introduction to Translation: Arabic to English and Advanced Translation: Arabic to English</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 706 &amp; TRNSLTN 716</td>
<td>Introduction to Translation: French to English and Seminar in Advanced Translation: French to English</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 708 &amp; TRNSLTN 718</td>
<td>Introduction to Translation: German to English and Seminar in Advanced German Translation</td>
<td></td>
</tr>
</tbody>
</table>

**Research Translation Track**

The Research track consists of 30 credits at the graduate level.

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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
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**Required Non-Language specific courses**

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</thead>
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<td>Comparative Systems for Translation</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 790</td>
<td>Thesis</td>
<td></td>
</tr>
</tbody>
</table>

An approved course in Critical Theory

**Required Language-specific courses (two courses in same language pair)**

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<thead>
<tr>
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<td></td>
</tr>
<tr>
<td>TRNSLTN 719 &amp; TRNSLTN 729</td>
<td>Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English</td>
<td></td>
</tr>
</tbody>
</table>
original contribution to the field of Translation and Interpreting Studies, of sufficient caliber for publication in a peer-reviewed journal.

**Time Limit**
Full-time students generally take two years to complete the program; part-time students within three to five years. The student must complete all degree requirements within five years of initial enrollment.

**Translation and Interpreting Studies, MA/Business Administration, MBA**
The College of Letters and Science and Lubar School of Business collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving language services industry theory and practices, and to provide high level management and administrative skills needed to work in business, industry, governmental, and nonprofit organizations.

**Requirements**

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Translation and Interpreting Studies MA of the College of Letters and Science, and the MBA program of the Lubar School of Business.

**Credit and Courses**
The total credits for the Coordinated Translation and Interpreting Studies/MBA program is 54. Students accepted into the Translation and Interpreting Studies/MBA program complete the following courses:

**Translation and Interpreting Studies**

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 700</td>
<td>Consecutive Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 711</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 722</td>
<td>Simultaneous Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 750</td>
<td>Advanced Modes of Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 727</td>
<td>Project Management in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 728</td>
<td>Editing for Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Professional Translation Credits**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation (language-specific)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
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</tr>
</tbody>
</table>

**Required Non-Language specific courses**

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<tbody>
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<td>Seminar in Literary and Cultural Translation (language-specific)</td>
<td>3</td>
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<td>Translation Theory</td>
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<td>Computer-Assisted Translation</td>
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<td>Internship in Translation/Interpreting</td>
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</tr>
</tbody>
</table>

**Required Language-specific courses (two courses in same language pair)**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 704 &amp; TRNSLTN 714</td>
<td>Introduction to Translation: Arabic to English and Advanced Translation: Arabic to English</td>
<td>3</td>
</tr>
</tbody>
</table>
Translation and Interpreting Studies Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 706 &amp; TRNSLTN 716</td>
<td>Introduction to Translation: French to English and Seminar in Advanced Translation: French to English</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 707 &amp; TRNSLTN 717</td>
<td>Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English</td>
<td></td>
</tr>
<tr>
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<td>Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English</td>
<td></td>
</tr>
</tbody>
</table>

Comprehensive Exam

Total Credits 21

Master of Business Administration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management (capstone)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses

Total Credits 33

Additional Requirements

The 54 credits for the coordinated program typically would be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program to receive a degree.

Time Limit

Students in the coordinated degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Translation and Interpreting Studies, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Credits and Courses

<table>
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<td></td>
</tr>
</tbody>
</table>
Translation, Graduate Certificate

The Graduate Certificate in Translation offers online-only professional training to students in French, German, Spanish, Arabic, Russian, and often other languages, who wish to pursue careers in the language-services industry broadly speaking, or in other fields requiring advanced professional use of a language other than English.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest

For information, please visit: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Eligibility and Admission
Applicants to the Certificate Program must hold a bachelor’s degree with an overall GPA of 2.75 or must provide substantial evidence of ability to succeed in graduate-level work.

A degree in the foreign language of concentration, or advanced study in that area, is desirable. In addition, admission to the program is based in part on a qualifying examination administered by the Program. The two-hour exam consists of a short translation from the source to the target language (between 200 and 250 words, depending on the source language) and one 300 to 500 word essay in English.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

Students must complete 21 credits of required courses; all credits must be at the graduate level, including the following:

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<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation/Interpreting</td>
<td>3</td>
</tr>
</tbody>
</table>

Language Concentration
Select 9 credits (see below)

| Electives | Select 3 credits (see below) | 3       |

Total Credits 21
## Language Concentration

Students must select a language concentration and complete the three courses (9 cr) listed below for that concentration.

### French to English

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 706</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### German to English

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 708</td>
<td>Introduction to Translation: German to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 718</td>
<td>Seminar in Advanced German Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### Spanish to English

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH/TRNSLTN 707</td>
<td>Introduction to Translation: Spanish to English</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH/TRNSLTN 717</td>
<td>Seminar in Advanced Translation: Spanish to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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### English to Spanish

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>TRNSLTN 702</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 712</td>
<td>Seminar in Advanced Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### Arabic to English

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 704</td>
<td>Introduction to Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 714</td>
<td>Advanced Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### Russian to English

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 719</td>
<td>Introduction to Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 729</td>
<td>Seminar in Advanced Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### Electives

In consultation with the program coordinator, students must select 3 credits from among the following courses. Additional appropriate courses may be counted toward the certificate with the consent of the coordinator. All courses are online unless otherwise noted.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 727</td>
<td>Project Management in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 728</td>
<td>Editing for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 700</td>
<td>Consecutive Interpreting (all languages)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 711</td>
<td>Ethics and Procedures in Interpreting (all languages)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>MALLT 708</td>
<td>Proseminar in Linguistics (on site only)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional Requirements

#### Transfer Credit

Certificate coursework at the graduate level may be applied toward an MA degree in the MALLT Program. Required courses completed as part of an undergraduate degree will not count toward the certificate requirements; in such cases, students, in consultation with the certificate program coordinator, will select additional appropriate elective courses to complete a minimum of 21 certificate program credits after the baccalaureate degree has been awarded.

#### Grade Point Average Requirement

Students must earn at least an average GPA of 3.0 in courses completed at the graduate level as well as a 3.0 GPA on all credits completed for the certificate. In addition, students must earn a B or better in all courses completed for the certificate.

#### Capstone Requirement

All certificate students will be required to pass a one-hour translation examination.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.
Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
CRT, 804
Phone: (414) 229-5968
terando@uwm.edu
http://uwm.edu/translation-interpreting-studies/graduate/graduate-certificate/

Urban Studies
Joel Rast, Associate Professor of Political Science, Program Director
James Harris, Associate Director
Fax: (414) 229-5942

Urban Studies provides the opportunity for students to explore scholarship on cities, suburban communities, and metropolitan regions with an interdisciplinary lens.

Programs
- Urban Studies, BA (p. 1190)
- Urban Studies, MS (p. 1194)
- Urban Studies, MS/Library and Information Science, MLIS (p. 1195)
- Urban Studies, PhD (p. 1196)
- Urban Studies, Undergraduate Certificate (p. 1198)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jasmine Alinder</td>
<td>Associate Dean for the Humanities &amp; Professor (History)</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Margo J. Anderson</td>
<td>Distinguished Professor Emerita (History)</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anne Bonds</td>
<td>Associate Professor (Geography)</td>
<td>PhD</td>
<td>University of Washington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marcus Britton</td>
<td>Associate Professor (Sociology)</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tina L. Freiburger</td>
<td>Professor (Criminal Justice)</td>
<td>PhD</td>
<td>Indiana University of Pennsylvania</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rina Ghose</td>
<td>Professor (Geography)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donald E. Green</td>
<td>Associate Professor Emeritus (Sociology)</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Harris</td>
<td>Senior Lecturer (Urban Studies)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kirk Harris</td>
<td>Associate Professor (Urban Planning)</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ryan Holifield</td>
<td>Associate Professor (Geography)</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mustafa Hussein</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD</td>
<td>University of Tennessee Health Science Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lingqian (Ivy) Hu</td>
<td>Professor (Architecture and Urban Planning)</td>
<td>PhD</td>
<td>University of Southern California</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Douglas M. Ihrke</td>
<td>Professor (Public and Nonprofit Administration)</td>
<td>PhD</td>
<td>Northern Illinois University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer R. Jordan</td>
<td>Professor (Sociology)</td>
<td>PhD</td>
<td>University of California-San Diego</td>
<td></td>
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</tr>
<tr>
<td>Marc V. Levine</td>
<td>Professor Emeritus (History)</td>
<td>PhD</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Genevieve McBride</td>
<td>Professor Emerita (History)</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Linda McCarthy</td>
<td>Associate Professor (Geography)</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stacey J. Oliker</td>
<td>Professor Emerita (Sociology)</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Urban Studies, BA

The Urban Studies major draws from classes in sociology, geography, history, political science, economics, urban studies, and urban planning to explore issues related to cities, suburban communities and metropolitan regions such as transportation, education, housing, population shifts, crime, discrimination, and more.

The Department of Urban Studies develops students analytical and critical thinking abilities through an examination of the history and growth of urban centers and the challenges they face today and into the future. Our faculty includes international specialists, but much of our curriculum focuses on American cities, and Milwaukee in particular. Our home city is unique, vibrant, and a wonderful place for hands-on study and research.

Because of their interest in urban populations and problem-solving, many graduates work in the areas of community development, land-use planning, public works, community organization, housing policy development and implementation, public education administration, social services, construction management, public health, journalism and fundraising. Entry-level roles can include tasks ranging from research to planning to program implementation to customer support.

Students in Urban Studies take courses in a variety of disciplines with elective classes that reflect their specific interests and goals. Classes may come from the History Department, Sociology, Political Science, Economics, and more. An internship or study abroad experience is a popular option for students to gain real-world experience working in urban environments. We believe so strongly that experiential learning is an essential part of an urban studies education that we require a service learning experience for all of our majors. An undergraduate certificate in Urban Studies (p. 1198) is also available for students seeking a program that is closer to a minor.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.
To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

Code | Title | Credits
--- | --- | ---

**Oral and Written Communication**

**Part A**

Achieve a grade of C or better in the following course:

- ENGLISH 102 College Writing and Research (or equivalent)

**Part B**

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

**Part A**

Achieve a grade of C or better in one of the following:

- MATH 102 Mathematical Literacy for College Students II
- MATH 103 Contemporary Applications of Mathematics
- MATH 105 Introduction to College Algebra
- MATH 108 Algebraic Literacy II
- MATH 111 Introduction to Logic - Critical Reasoning
  or PHILOS 111 Introduction to Logic - Critical Reasoning
- MATH 116 College Algebra
  or equivalent course

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
  or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

---

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B, listed above.

- Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>of college work or equivalent in one</td>
<td></td>
</tr>
<tr>
<td></td>
<td>language other than English (including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of college work or equivalent in one</td>
<td></td>
</tr>
<tr>
<td></td>
<td>language other than English (including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Sign Language) PLUS the 2nd</td>
<td></td>
</tr>
<tr>
<td></td>
<td>semester of college work or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>in another language other than English</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

### IV. International Requirement

See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single</td>
<td></td>
</tr>
<tr>
<td></td>
<td>language (not including literature-in-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>translation or American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>credits) with an international content</td>
<td></td>
</tr>
<tr>
<td></td>
<td>chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>two options above.</td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Humanities Breadth designation; no more</td>
<td></td>
</tr>
<tr>
<td></td>
<td>than 6 credits from a single subject area.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Science Breadth designation; no</td>
<td></td>
</tr>
<tr>
<td></td>
<td>more than 6 credits from a single curricular area.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences Breadth designation,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>including at least one laboratory or field</td>
<td></td>
</tr>
<tr>
<td></td>
<td>course; no more than 6 credits from a</td>
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<tr>
<td></td>
<td>single curricular area.</td>
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<tr>
<td></td>
<td>Complete 3 credits in a course with</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity (CD) designation. **</td>
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</tbody>
</table>

** Students should check their course selections carefully with the list of approved L&S Breadth Courses (http://catalog.uwm.edu/letters-science/breadth-requirement-course-list/). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (http://catalog.uwm.edu/letters-science/approved-courses-research-requirement/).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Urban Studies Major Requirements**

Four required urban studies courses form the foundation of the major. URB STD 150, a core course in which students conduct service learning by working in an urban organization or agency; one of two urban studies survey courses; a theory course on urbanism and urbanization; and
a capstone course (URB STD 600) taken in the senior year. Students also take a statistics course, which is a standard requirement for social science majors. In addition, students complete five elective courses selected from urban studies and approved courses in the affiliated areas. Student internships (URB STD 289 or URB STD 489) are encouraged strongly. Students also are encouraged to participate in and present at various urban studies-sponsored events, such as the annual Urban Studies Student Research Forum conference and the Henry W. Maier State of Milwaukee Summit, and to contribute to the epol's ejournal (currently, each issue includes one paper from an undergraduate).

To declare a major in Urban Studies, students make an appointment with the Urban Studies Associate Director in order to complete the "declaration of major" form.

### Course of Study

The Urban Studies major requires a minimum of 30-31 credits, including at least 18 credits in the College of Letters and Science with coursework from at least two L&S departments. No more than 9 credits in a single curricular area outside of urban studies may count toward the major. SOCIOL 377, which is jointly offered in the Urb Std curricular area, will count as an Urb Std course for this purpose. Students must complete at least 15 credits in upper-division (numbered 300 and above) L&S courses for the major in residence at UWM. In addition, students must attain a minimum GPA of 2.0 in all UWM credits attempted for the major. The College of Letters and Science also requires that students attain a 2.0 GPA in all major credits attempted, including any transfer work. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 360</td>
<td>Perspectives on the Urban Scene: Exploring the Urban Environment</td>
<td>3</td>
</tr>
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<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
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<td>3</td>
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<tr>
<td>URB STD</td>
<td>All U and U/G courses</td>
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</tr>
<tr>
<td>AFRIC 125</td>
<td>Economics of the Black Community</td>
<td>3</td>
</tr>
<tr>
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<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
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<td>African American Urban History</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 417</td>
<td>Race, Class and Gender in Southern Africa</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 190</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
<tr>
<td>CRM JST 291</td>
<td>Current Issues in Criminal Justice:</td>
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<td>Race, Ethnicity, and Public Policy in Urban America</td>
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<tr>
<td>GEG 564</td>
<td>Urban Environmental Change and Social Justice</td>
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<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>HIST 192</td>
<td>First-Year Seminar: (Living in Ancient Rome or The Burbs: History of American Suburbs)</td>
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<td>Politics and the Bureaucracy</td>
<td>3</td>
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</table>

**Electives**

15 credits selected from the following courses or other appropriate courses approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30- or 31-credit minimum in the major.)

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</tbody>
</table>
**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a assigned advisor; email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Senior Lecturer Jamie Harris, jmh@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/urban-studies/undergraduate/

**Urban Studies, MS**

The Master of Science degree program in Urban Studies provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan communities. The course of study stresses the understanding of social processes and the analysis of social and economic policies affecting cities.

The PhD degree program in Urban Studies is designed to prepare individuals to obtain employment in academic departments, as well as government institutions and social agencies, and to conduct sophisticated research in the field of urban studies. The course of study emphasizes history, research methodology, and social science theory.

Urban Studies Programs offers two interdisciplinary graduate programs of study that are housed in the College of Letters and Science and led by social science faculty members from the Departments of Africology, Architecture, Criminal Justice, Educational Policy and Community Studies, Geography, History, Political Science, Nonprofit and Public Administration, Public Health, Sociology, and Urban Planning.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following requirement to be considered for admission:

**Urban Studies, MS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
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</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 243</td>
<td>Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 452</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 224</td>
<td>Race and Ethnicity in the United States</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 235</td>
<td>Social Change in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 324</td>
<td>Race and Ethnicity in Global Contexts</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 325</td>
<td>Social Change</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 330</td>
<td>Economy and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 350</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 610</td>
<td>Reproduction of Minority Communities</td>
<td>3</td>
</tr>
</tbody>
</table>
• Undergraduate major in one of the social sciences or experience in relevant occupational roles such as planning, community organization or social work.
• Two letters of recommendation from persons familiar with the applicant’s academic ability. Recommendation forms may be obtained online from the Urban Studies Programs website (http://www4.uwm.edu/lets/sci/urbanstudies/graduate/apply.cfm).
• Submission of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores is recommended but not required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
The minimum degree requirement is 30 graduate credits. Students must earn at least 15 of their 30 credits in courses numbered 700 or above. All Urban Studies students are required to take a core curriculum of 15 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Select an approved quantitative analysis course</td>
<td>3</td>
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</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
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</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td></td>
</tr>
<tr>
<td>Select 15 credits of approved electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

Additional Requirements
Major Professor as Advisor
The Director and Associate Director of the Urban Studies Programs acts as the initial advisor to all entering students. Therefore, upon admission to the program, students should meet with one of them to discuss their course of study. As specified by The Graduate School, the student must have a major professor to advise and supervise the student’s studies. Once the student has defined an area of interest within Urban Studies, an advisor with similar interests may be chosen from among the other members of the USP faculty.

Paper or Thesis
A master’s paper or thesis is required to receive the MS degree in Urban Studies. A master’s paper may be developed from a seminar paper and should demonstrate conceptual ability and research competence in a sub-area of Urban Studies. It is expected that the master’s paper will be prepared in a scholarly fashion conforming to the format characteristics of journal articles published in the chosen area of study.


Regardless of the option chosen, the student, in consultation with the faculty advisor, must assemble a committee of three faculty (two of whom cannot be from the same department and must be USP faculty) who will serve as the paper or thesis examination committee. The student must pass an oral examination based on the paper or thesis.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Urban Studies, MS/Library and Information Science, MLIS
In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MS Urban Studies
A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses
Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following
Joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master's thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

**Urban Studies**

The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td></td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses 18

Total Credits 30

Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

**Urban Studies, PhD**

The Master of Science degree program in Urban Studies provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan communities. The course of study stresses the understanding of social processes and the analysis of social and economic policies affecting cities.

The PhD degree program in Urban Studies is designed to prepare individuals to obtain employment in academic departments, as well as government institutions and social agencies, and to conduct sophisticated research in the field of urban studies. The course of study emphasizes history, research methodology, and social science theory.

Urban Studies Programs offers two interdisciplinary graduate programs of study that are housed in the College of Letters and Science and led by social science faculty members from the Departments of Africology, Architecture, Criminal Justice, Educational Policy and Community Studies, Geography, History, Political Science, Nonprofit and Public Administration, Public Health, Sociology, and Urban Planning.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/thesis-dissertation-formatting/), hold a master's degree or the equivalent in a social science or a related field, and meet the criteria established by the Urban Studies Programs Faculty to be considered for admission:

1. Three letters of recommendation from persons familiar with the applicant's academic work. Recommendation forms may be obtained online from the link above.
2. A sample of the applicant's written work that demonstrates the applicant's ability to conduct independent social science research and/or the ability to critically analyze the work of others.
3. A letter of intent outlining the applicant's reasons for graduate study.
4. GRE scores.
5. A response to a question that elucidates the applicant's reasons for taking up the academic study of urban affairs and describes her/his intellectual ambitions in the field.

**Credits and Courses**

Minimum degree requirement is 33 credits beyond the master's degree; these credits include core courses, a methodological specialization, a topical specialization, and a dissertation. At least 27 credits must be earned in UWM courses while in the doctoral program. Credits for the methodological specialization and the topical specialization combined must total at least 15 credits, with 6 credits from one area and 9 from the other. Students will decide, in consultation with their advisor, whether to focus more on methods or on topics. In consultation with their major professor and the program director, students must develop a plan of study, which should be filed in the USP office by the end of the second semester of enrollment.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 981 or URB STD 983</td>
<td>Argument in Urban Studies Scholarship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the four listed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 747</td>
<td>Spatial Analysis</td>
<td>3-4</td>
</tr>
</tbody>
</table>
Program/Policy Evaluation (2 course minimum)
A methodological specialization in program/policy evaluation requires POL SCI 769/PUB ADM 769 and at least one additional program/policy evaluation course. This course, selected in consultation with the student’s advisor, should support research objectives and dissertation goals. See the Graduate Program Director for a list of qualifying courses.

Mixed Methods (2 course minimum)
Graduate students intending to pursue mixed research methods in their dissertation must file with the USP a plan of study created in consultation with their major professor and the program Director.

Topical Specialization (6-9 credits)
Students must declare a topical specialization, in consultation with their advisor, to gain competence in one of the faculty areas of specialization and must take two to three courses in that specialization, for a total of 6 to 9 credits. Students who opt for 6 credits (two courses) of methodological specialization must take at least 9 credits of topical specialization courses. Those who select 9 credits (three courses) of methodological specialization must complete 6 credits of topical specialization courses.

A variety of specializations and qualifying courses are published annually on the Urban Studies website (http://uwm.edu/urban-studies/graduate/). Students are required to take 6-9 credits at the 700 level or above in the specialization field, no more than 3 credits of which may be in independent study courses. With the approval of the major professor or program director, students may take up to 3 credits in U/G courses.

Thesis (6 credits)
A maximum of 6 credits in doctoral thesis or dissertation courses may be counted toward the 33 credits required for the degree.

Additional Requirements

Residence
The PhD student may meet the residence requirement by completing 8 or more graduate credits in each of two consecutive semesters, exclusive of summer sessions, or by completing at least 6 graduate credits in each of three consecutive semesters, exclusive of summer sessions.

Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree.

Dissertation
The candidate, working under the supervision of the major professor and the candidate’s dissertation committee, must write a dissertation which demonstrates ability to formulate a research topic and pursue original investigation.

Dissertation Defense
The candidate must, as a final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information on the PhD, see the Graduate School Doctoral Requirements page (http://uwm.edu/graduateschool/doctoral-requirements/).
Urban Studies, Undergraduate Certificate

The Undergraduate Certificate in Urban Studies draws from classes in sociology, geography, history, political science, economics, urban studies, and urban planning to explore issues related to cities, suburban communities and metropolitan regions such as transportation, education, housing, population shifts, crime, discrimination, and more.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Urban Studies Undergraduate Certificate program is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who complete the requirements of the program successfully will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon successful completion of the program requirements.

Requirements

1. Completion of 18 credits in approved urban studies courses with a minimum GPA of 2.500.
2. Completion of URB STD 250 (Exploring the Urban Environment), URB STD 193 (First-Year Seminar), or URB STD 360 (Perspectives on the Urban Scene).
3. Of the 18 credits:
   a. 6 must be in the humanities;
   b. 6 in the social sciences; and
   c. 9 must be at the 300 level or above taken in residence at UWM. It is recommended that the student also complete one course in the natural sciences.
4. No more than 9 credits from any one department outside Urban Studies may count toward the certificate.
5. A maximum of 6 credits in independent study may be taken. In the senior year, a student may plan an independent study course to synthesize previous work in urban studies.
6. An internship in URB STD 289 or URB STD 489 is recommended highly.
7. While students may elect courses outside the College of Letters and Science to count toward the certificate, at least 12 credits must be completed in L&S courses, at least 6 of these at the 300 level or above.
8. Credits earned at other institutions in equivalent urban studies programs and accepted by UWM as transfer credits may count in partial fulfillment of the certificate requirements.

Urban Studies Approved Courses

The following courses in the College of Letters and Science are approved to count toward the Urban Studies Certificate. Each semester, the Advisory Committee will review and approve variable content course sections for the Certificate. Contact the Urban Studies Program for the most current list of approved courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 319</td>
<td>African American Urban History</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 584</td>
<td>Urban Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 360</td>
<td>Modern Architecture II: The Rise of Modern Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 361</td>
<td>Modern Architecture III: Contemporary Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 425</td>
<td>The Age of Pilgrimage and Crusade: Romanesque Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 426</td>
<td>The Age of the Great Cathedrals: Gothic Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 431</td>
<td>Renaissance Architecture in Italy</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 458</td>
<td>A Comparative History of Architecture and Urbanism</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 459</td>
<td>American Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 462</td>
<td>Frank Lloyd Wright</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 370</td>
<td>Criminal Justice Administration</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions: (Hip Hop)</td>
<td>2-3</td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 203</td>
<td>Communities and Neighborhoods in America</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 500</td>
<td>Sociology and Policy of Urban Communities and Schools</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 507</td>
<td>Action Research on Milwaukee Institutions</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 248</td>
<td>Literature and Contemporary Life: (Mapping the City)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 394</td>
<td>Theories of Mass Culture</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 114</td>
<td>Geography of Race in the United States</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 297</td>
<td>Study Abroad: (Urban Environmental Changes in Guatemala)</td>
<td>1-12</td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 497</td>
<td>Study Abroad: (Urban Environmental Changes in Guatemala)</td>
<td>1-12</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
</tbody>
</table>
Women's and Gender Studies

Women's and Gender Studies is an academic discipline that critically evaluates gender from an interdisciplinary perspective and challenges many traditional assumptions and theories about women that have excluded them from positions of power. It examines the practice and expression of gender in different societies and at different historical moments; it explores the various origins and articulations of gender differentiation; it traces the influence of gender expectations on individuals and it studies the interactions of gender and other differences in social, political, and cultural contexts. The feminist pedagogy used in Women's and Gender Studies courses empowers all students to become active learners and social change agents through discussion, written work, collaborative projects, and practical involvement beyond the classroom.

Women's and Gender Studies prepares students for careers in non-profit organizations, business, the creative arts, education, government and public policy, journalism, law, medicine, publishing, science, the social sciences, social work, and many other fields.

**Programs**

- Women's and Gender Studies, BA (p. 1200)
- Women's and Gender Studies, Graduate Certificate (p. 1203)
- Women's and Gender Studies, MA (p. 1204)
- Women's and Gender Studies, MA/Library and Information Science, MLIS (p. 1205)
- Women's and Gender Studies, MA/Social Work, MSW (p. 1206)
- Women's and Gender Studies, Minor (p. 1207)
Women's and Gender Studies, BA

Women's and Gender Studies is a discipline that critically examines gender and women's issues from an interdisciplinary perspective and challenges many traditional assumptions and theories. It examines the practice and expression of gender in different societies and at different historical moments.

Regardless of your gender, Women's and Gender Studies is crucial and relevant for anyone interested in working in criminal justice, social work, the non-profit sector, the arts, politics, business, and more. Students learn to look at the world and history through different perspectives and think about how gender and our perceptions of it impact culture, society, and daily interactions. It is a traditional liberal arts discipline where the knowledge and skills developed in the program can be applied to all types of career paths. Work experiences during college through internships, part-time jobs, and volunteer positions often shape career paths after graduation.

In 1974, the Office of Women's Studies opened its doors at UWM, becoming the first university in Wisconsin to establish a Women's Studies program. Today, undergraduate students at UWM can pursue a Women's and Gender Studies major or minor, and graduate students can choose from among three different Women's and Gender Studies MA options or a certificate to complement a different graduate degree program. Undergraduates benefit from the MA program's strength by working with and learning from graduate students and taking classes with the same exceptional faculty.

Students in Women's and Gender Studies master critical thinking, problem analysis, and communication through both classroom studies and service learning opportunities.

Students who are interested in the major should consult with Women's and Gender Studies to make a formal declaration. For additional information, please contact Women's and Gender Studies, located in CRT 535, by phone at (414) 229-5918, or on the web at http://uwm.edu/womens-gender-studies/.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in the following course:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Achieve a grade of C or better in one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning 1</td>
<td></td>
</tr>
<tr>
<td>PHILS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
</tbody>
</table>
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

College of Letters & Science Requirements

I. English Composition Requirement
Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement score of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHILOS 111</td>
<td>Introduction to Logic - Critical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRIC 220</td>
<td>Introduction to Statistics in African and African Diaspora Studies</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (http://catalog.uwm.edu/letters-science/approved-courses-international-requirement/) for course options.
The Women’s and Gender Studies major requires 36 credits drawn from Women’s and Gender Studies core and cross-listed classes. At least 15 credits in the major must be taken in upper-division (numbered 300 or above) courses in residence at UWM. Completion of WGS 411 and either WGS 500 or WGS 501 satisfies the L&S research requirement. Students must maintain a GPA of at least 2.0 in UWM major courses attempted. In addition, the College requires that students attain a 2.0 GPA in all major courses attempted, including any transfer work. Majors should consult regularly with their advisor in Women’s and Gender Studies about their course of study.

The major requires completion of the following courses offered through Women’s and Gender Studies:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 200</td>
<td>Introduction to Women’s and Gender Studies: A Social Science Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WGS 201</td>
<td>Introduction to Women’s and Gender Studies: A Humanities Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WGS 211</td>
<td>Foundations of Women’s and Gender Studies Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 410</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 411</td>
<td>Women’s and Gender Studies Research Methods:</td>
<td>3</td>
</tr>
<tr>
<td>WGS 489</td>
<td>Internship in Women’s and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 699</td>
<td>Independent Reading (taken in the senior year)</td>
<td>3</td>
</tr>
</tbody>
</table>

Any upper-level (numbered 300 and above) WGS or Women’s and Gender Studies-related course approved by the Women’s and Gender Studies Chair or Assistant Chair (Undergraduate Advisor)

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 500</td>
<td>Advanced Social Science Seminar in Women’s and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 501</td>
<td>Advanced Humanities Seminar in Women’s and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS/WGS 535</td>
<td>Philosophical Topics in Feminist Theory:</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 15 credits 2

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>
Students may not receive credit for both WGS 200 and 201. Only one of these courses can be taken for credit.

An additional 15 credits, to reach a total of 36 credits, selected from WGS courses and/or cross-listed courses offered by other departments are required. Numerous courses in a wide variety of disciplines have been approved for cross-listing with Women’s and Gender Studies. Disciplines include, but are not limited to, Africology; anthropology; art history; biological sciences; communication; comparative literature; economics; English; ethnic studies; film studies; Hebrew studies; history; Italian; journalism, advertising, and media studies; linguistics; philosophy; political science; psychology; sociology; Spanish; urban planning; nursing; business administration; art; music; criminal justice; social work; and education. For information about courses that currently are cross-listed, please contact the Department of Women’s and Gender Studies.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com/) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the students will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
Women’s and Gender Studies majors who have maintained at least a 3.000 GPA overall, 3.500 GPA in all courses attempted for the major, and a 3.500 GPA in advanced-level (numbered 300 and above) courses that count toward the major are eligible to graduate with honors in the major. Students who believe they may qualify to graduate with honors in the major should apply to the Assistant Chair of Women’s and Gender Studies.

Honors in the College of Letters and Science
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the department directly, wgs@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/womens-gender-studies/undergraduate/

Women’s and Gender Studies, Graduate Certificate
The Graduate Certificate in Women’s and Gender Studies is designed for students enrolled in a graduate program in any field who wish to complement their advanced training and scholarly work with an additional specialization in Women’s and Gender Studies.

Research and study in Women’s and Gender Studies helps students:

• identify and assess gender-based assumptions and biases and to recognize their social, cultural and individual consequences;
• analyze and integrate perspectives and bodies of knowledge across disciplines, and develop your critical thinking skills in ways that will complement and enhance your training in any other field;
• prepare for careers in non-profit organizations, businesses, the creative arts, education, government and public policy, journalism, law, social work, and more;
• become empowered to participate in public debate and act for social change.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for
specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Eligibility and Admission
To pursue this certificate, students must be enrolled in a graduate degree program or already hold a graduate degree. Acceptance to this graduate certificate also requires a minimum 2.75 GPA from the undergraduate program.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
The Graduate Certificate in Women's and Gender Studies requires completion of 15 credits in approved courses with an overall GPA of 3.0. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 6 credits from a combination of WGS and approved cross-listed Graduate (G) or Undergraduate/Graduate (U/G) courses in other programs and departments

No more than 6 credits in U/G courses can apply toward the certificate, and a maximum of 3 credits in independent study may count toward the 15 credits required for the certificate. Thesis and research credits may not be counted toward the certificate.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count toward a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
Phone: (414) 229-5918
wmns@uwm.edu
http://uwm.edu/womens-gender-studies/graduate/certificate/

Women's and Gender Studies, MA

The MA in Women's and Gender Studies is designed for students who intend to pursue additional academic degrees and students who seek graduate credentials to further their career goals. The degree combines advanced Women's and Gender Studies courses in feminist theory, research methods, global feminisms, and selected topics with graduate-level courses in many disciplines. Over forty faculty members at UWM are Women's and Gender Studies affiliates and offer graduate courses that are cross-listed with Women's and Gender Studies.

Students completing an MA in Women's and Gender Studies will:
- Gain an understanding of Women's and Gender Studies as an interdisciplinary field of study and research.
- Demonstrate an advanced understanding of feminist theory and research methods.
- Develop critical thinking skills that will enable them to analyze competing perspectives and integrate various bodies of knowledge across academic boundaries, paying particular attention to gender-based assumptions and their consequences on individuals, social and cultural groups, and institutions.
- Demonstrate an awareness of women's diverse experiences based on factors such as age, race, sexuality, gender identity, class, religion, and ability status.
- Acquire the background necessary for entry into PhD programs in Women's and Gender Studies. The MA also prepares students for
further graduate studies in many fields of the humanities, social sciences or professions, as well as career fields that require an advanced degree.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

The Women's and Gender Studies MA Program accepts fall admission only. Applications received by January 15 will be given full consideration.

Admission
In addition to satisfying Graduate School requirements (http://uwm.edu/graduateschool/admission/) for admission, applicants must apply online via the UWM Panthera Graduate Admission Application. Additionally, the following materials must be submitted to be considered for admission:

- Official or unofficial transcripts for all work done at higher education/post-secondary institutions
- Three letters of recommendation from persons familiar with the applicant’s academic or professional work
- A sample of the applicant’s written work that demonstrates the applicant’s critical thinking, research, and writing skills
- A letter of intent explaining the applicant’s reasons for graduate study
  (the Graduate School Reasons Statement may be used)

GRE (http://uwm.edu/graduateschool/admission/#gre) scores are recommended, but not required. GRE (http://uwm.edu/graduateschool/admission/#gre) scores are required to apply for UWM fellowships or awards.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. Students are expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the program. No course credits earned in making up deficiencies may be counted toward the degree.

Financial Aid
Women's and Gender Studies offers a graduate teaching assistantship. Women's and Gender Studies also has two need-based scholarships for which graduate students are eligible. Scholarship decisions are made each spring. Contact the program for applications.

The UWM Graduate School offers AOP (Advanced Opportunity Program) and Distinguished Graduate Student Fellowships (http://uwm.edu/graduateschool/types-of-funding/#fellowships).

Advising
Graduate advising is the responsibility of the Women's and Gender Studies Director of Graduate Studies (DGS), who provides initial advising for students until they choose an advisor.

Credits and Courses
To earn an MA in Women’s and Gender Studies, students must complete 30 credits. Fifteen credits are in required Women’s and Gender Studies courses (15 with thesis option):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Feminist Epistemologies and Research Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one G or U/G WGS course

<table>
<thead>
<tr>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 15 credits in graduate-level courses in consultation with the WGS Director of Graduate Studies.</td>
</tr>
</tbody>
</table>

Total Credits 30

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, and WGS 999.

No more than six credits may be in undergraduate/graduate (U/G) courses, and no more than six transfer credits may apply. Students may not count more than three credits of WGS 999 toward the degree.

Additional Requirements

Thesis, Paper or Project, or Examination
Students complete the degree with a written thesis, paper or project, or comprehensive examination. All options include an oral defense.

The thesis is an academic research paper that demonstrates the student’s ability to carry out an independent investigation, to analyze data (qualitative and/or quantitative), and to present the results in a clear, systematic form. The thesis includes a review of relevant scholarship and makes a contribution to the field.

The master’s paper is a more limited, shorter scholarly product that often takes the form of a scholarly essay of publishable quality. The master’s paper demonstrates the student’s ability to formulate an argument, analyze data, present results in a clear, systematic form, and show familiarity with relevant scholarship.

The master’s project may be a creative or artistic project that is research-based or a research-based practical project.

The examination is a comprehensive written examination that addresses central texts and issues in the field of Women’s and Gender Studies.

Time Limit
Students must complete the MA within five years of enrollment, in compliance with Graduate School time-to-degree requirements.

Women’s and Gender Studies, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if...
they were not taken simultaneously. All degree requirements of each component must be satisfied.

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA Women’s and Gender Studies**
The coordinated program is designed to provide students with theoretical and practical exposure to evolving information retrieval and organization, and the field of feminist research and scholarship.

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

The Women’s and Gender MA Program accepts fall admissions only. Applications received by January 15 will be given full consideration.

**Admission**
Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Women’s and Gender Studies MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

**Credit and Courses**
The MA in Women’s and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women’s and Gender Studies courses. For the coordinated MA WGS/MLIS degree program, however, students can substitute 6 credits in Information Studies for 6 credits of WGS courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in WGS courses as specified below.

**Women’s and Gender Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Feminist Epistemologies and Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Practices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one WGS G or U/G course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

**Library and Information Science**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**
Select 18 credits in consultation with a SOIS faculty advisor.

Total Credits: 30

Total MLIS Credits: 30 (min of 33 with SOIS thesis option)

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Importan**
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

**Additional Requirements**

**Time Limit**
Students in the coordinated MA/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

**Women’s and Gender Studies, MA/ Social Work, MSW**
The College of Letters and Science and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice and the field of feminist research and scholarship. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**Requirements**

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found.
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

The Women's and Gender Studies MA Program accepts fall admissions only. Applications received by January 15 will be given full consideration.

Admission
Students are admitted to both graduate programs separately, and admission requirements (http://uwm.edu/graduateschool/admission/) are consistent with those specified by the UWM Graduate School, the MA in Women's and Gender Studies (p. 1204) program in the College of Letter and Science, and the MSW in Social Work (http://uwm.edu/graduateschool/social-work/) of the Helen Bader School of Social Welfare.

Credit and Courses
The MA in Women's and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women's and Gender Studies courses. For the coordinated WGS MA/MSW degree program, however, students can substitute 6 credits in Social Work courses for 6 credits of WGS courses. Similarly, the Social Work master's program will accept 6 credits of WGS course work to satisfy the 6 required elective credits for the MSW degree. Because the MSW degree has a distinction in the number of credits required depending on bachelor's degree type, the total number of credits required to complete the Coordinated WGS/MSW program will range from 52 credits (24 from WGS and 28 from MSW when holding a bachelor's in social work) to 74 credits (24 from WGS and 50 from MSW when a bachelor's degree is from another discipline).

### Women's and Gender Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Feminist Epistemologies and Research Practices</td>
<td>3</td>
</tr>
<tr>
<td>Select one G or U/G WGS course ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 9 elective credits in WGS or WGS cross-listed courses (not SOC WRK), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 24

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, and WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

### Master of Social Work

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social Work Foundation Curriculum</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work (U/G)</td>
<td>3</td>
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<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare (G)</td>
<td>3</td>
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SOC WRK 708 Social Work Methods I: Individuals and Families (G) 3
SOC WRK 709 Social Work Methods II: Groups, Organizations and Communities (G) 2
SOC WRK 721 Field Instruction I (G) 3
SOC WRK 750 Social Welfare Policy Development and Implementation (G) 2

### Social Work Advanced Practice Curriculum

<table>
<thead>
<tr>
<th>Practice</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>SOC WRK 711 or SOC WRK 713</td>
<td>Direct Social Work Practice I (G)</td>
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<td>or SOC WRK 915</td>
<td>Human Services Administration II</td>
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<td>Select one additional Social Work practice course</td>
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<td><strong>Field</strong></td>
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<td>SOC WRK 722</td>
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<td>SOC WRK 821</td>
<td>Field Instruction III (G)</td>
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<td>SOC WRK 822</td>
<td>Field Instruction IV (G)</td>
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<td><strong>Human Behavior Content</strong></td>
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<td>SOC WRK 685</td>
<td>Social Gerontology (U/G)</td>
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<td>SOC WRK 753</td>
<td>Adult Psychopathology (G)</td>
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<td>SOC WRK 771</td>
<td>Development of the Family Over the Life Span (G)</td>
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<td><strong>Research</strong></td>
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<tr>
<td>SOC WRK 793</td>
<td>Evaluation of Practice (G)</td>
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<td>SOC WRK 794</td>
<td>Evaluation of Programs (G)</td>
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<tr>
<td><strong>Social Policy</strong></td>
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<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis: (Subtitled) (G)</td>
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<tr>
<td><strong>Electives</strong></td>
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<tr>
<td>Select 6 credits from Women's and Gender Studies courses in consultation with faculty advisor</td>
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</table>

Total Credits 50-51

Minimum Total Credits for Coordinated Program: 52 (for those admitted to the MSW Social Work Advanced Curriculum).

For students without a social work baccalaureate or otherwise needing the Foundation Coursework, the total credits will sum to 74.

### Additional Requirements

Time Limit
Students in the coordinated MA/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

### Women's and Gender Studies, Minor

Women's and Gender Studies is a discipline that critically examines gender and women's issues from an interdisciplinary perspective and challenges many traditional assumptions and theories. It examines the practice and expression of gender in different societies and at different historical moments.
Regardless of your gender, Women’s and Gender Studies is crucial and relevant for anyone interested in working in criminal justice, social work, the non-profit sector, the arts, politics, business, and more. Students learn to look at the world and history through different perspectives and think about how gender and our perceptions of it impact culture, society, and daily interactions. It is a traditional liberal arts discipline where the knowledge and skills developed in the program can be applied to all types of career paths. Work experiences during college through internships, part-time jobs, and volunteer positions often shape career paths after graduation.

In 1974, the Office of Women’s Studies opened its doors at UWM, becoming the first university in Wisconsin to establish a Women’s Studies program. Today, undergraduate students at UWM can pursue a Women’s and Gender Studies major or minor, and graduate students can choose from among three different Women’s and Gender Studies MA options or a certificate to complement a different graduate degree program. Undergraduates benefit from the MA program’s strength by working with and learning from graduate students and taking classes with the same exceptional faculty.

Students in Women’s and Gender Studies master critical thinking, problem analysis, and communication through both classroom studies and service learning opportunities.

Students who are interested in the minor should consult with Women’s and Gender Studies to make a formal declaration. For additional information, please contact Women’s and Gender Studies, located in CRT 535, by phone at (414) 229-5918, or on the web at http://uwm.edu/womens-gender-studies/.

**Requirements**

Students who minor in Women’s and Gender Studies are required to take 18 credits drawn from Women’s and Gender Studies and cross-listed courses, at least 9 credits of which must be completed in upper-division (numbered 300 or above) courses in residence at UWM. In addition, students must attain a 2.0 GPA in all minor courses attempted, including any transfer work. The following courses are required for the minor.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>Select one of the following:</td>
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<tr>
<td>WGS 200</td>
<td>Introduction to Women’s and Gender Studies: A Social Science Perspective</td>
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<tr>
<td>WGS 201</td>
<td>Introduction to Women’s and Gender Studies: A Humanities Perspective</td>
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<td>WGS 401</td>
<td>Global Feminisms</td>
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<td>WGS 410</td>
<td>Feminist Theory</td>
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</table>

1 Students may not receive credit for both WGS 200 and 201. Only one of these courses can be taken for credit.

**Contact Information**

Current Students contact the Department directly, wmns@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
NURSING (COLLEGE OF)

The College of Nursing offers a Bachelor of Science degree (BS) in nursing, a Master of Nursing (MN) degree, and a Doctor of Nursing Practice (DNP) degree. These nursing programs are fully approved through the State of Wisconsin Board of Nursing and accredited by the Commission on Collegiate Nursing Education. The College also offers a Doctor of Philosophy degree (PhD) in nursing.

Vision
As an innovative, academic community, the University of Wisconsin-Milwaukee College of Nursing faculty, staff, students and alumni are renowned practitioners, scientists and leaders in creating bold and transformative solutions for advancing local, national and global health.

Mission
The University of Wisconsin-Milwaukee College of Nursing is a premier, urban, academic, collegial community that acts collaboratively with partners to:

- Prepare a diverse population of students to become science based, compassionate leaders through innovative, quality, educational programs for all settings and levels of practice.
- Conduct research and scholarship that advance science in nursing and health.
- Address health through evidence based practice and interprofessional collaboration.
- Develop leaders who transform health care delivery and health policy.

Core Values
As a diverse Community of Scholars that values academic discourse and debate in a climate of civility, we live our core values and create opportunities to understand the perspectives of all others. We, the University of Wisconsin-Milwaukee College of Nursing community, demonstrate these core values in our learning, teaching, research, practice and service.

- Collaboration
- Creativity
- Integrity
- Human Dignity
- Diversity
- Accountability
- Social Justice
- Excellence

Programs
Undergraduate

- Global Health, Undergraduate Certificate (College of Nursing) (p. 1215)
- Nursing, BS (p. 1244)
- Nursing, RN to BS Program (p. 1252)
- Peace Studies and Conflict Resolution, Undergraduate Certificate (p. 1253)

Master’s

- Nursing, MN (p. 1248)
- Sustainable Peacebuilding, MSP (p. 1257)

Doctoral

- Nursing Practice, DNP/Business Administration, MBA (p. 1219)
- Nursing Practice, DNP Adult-Gerontology Acute Care Nurse Practitioner (p. 1220)
- Nursing Practice, DNP Clinical Nurse Specialist: Adult-Gerontology (p. 1223)
- Nursing Practice, DNP Clinical Nurse Specialist: Maternal-Infant (p. 1226)
- Nursing Practice, DNP Clinical Nurse Specialist: Pediatrics (p. 1229)
- Nursing Practice, DNP Community Public Health (p. 1231)
- Nursing Practice, DNP Family Nurse Practitioner (p. 1234)
- Nursing Practice, DNP Nursing System Leadership: Informatics (p. 1237)
- Nursing Practice, DNP Nursing System Leadership: Nurse Executive (p. 1239)
- Nursing Practice, DNP Psychiatric Mental Health Nurse Practitioner (p. 1242)
- Nursing, PhD (p. 1250)

Certificates

- Adult-Gerontology Acute Care Nurse Practitioner, Graduate Certificate (p. 1211)
- Clinical Nurse Specialist, Graduate Certificate (p. 1212)
- Family Nurse Practitioner, Graduate Certificate (p. 1214)
- Global Health, Undergraduate Certificate (College of Nursing) (p. 1215)
- Health Professional Education, Graduate Certificate (College of Nursing) (p. 1217)
- Internationally Educated Nurses Transitioning to US Nursing Practice, Undergraduate Certificate (p. 1218)
- Interprofessional Public and Population Health, Graduate Certificate (College of Nursing) (p. 1218)
- Peace Studies and Conflict Resolution, Undergraduate Certificate (p. 1253)
- Psychiatric Mental Health Nurse Practitioner, Graduate Certificate (p. 1256)
- Trauma Informed Care, Graduate Certificate (College of Nursing) (p. 1258)

Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students will be subject to a check of criminal conviction records, prior to acceptance of a student by the placement site. Drug testing is also a requirement prior to starting clinical, as is verification of health and immunization status. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies.
Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Mary Jo Baisch</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>James Bockeloh</td>
<td>Clinical Assistant Professor</td>
<td>DNP, RN, FNP-BC</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Susan Bonis</td>
<td>Clinical Assistant Professor</td>
<td>PhD, RN</td>
<td>University of Massachusetts-Amherst</td>
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<tr>
<td>Freddy Cao</td>
<td>Clinical Associate Professor</td>
<td>MD, PhD</td>
<td>University of Tokyo</td>
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<tr>
<td>Jacqueline Clinton</td>
<td>Professor</td>
<td>PhD, RN, FAAN</td>
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<tr>
<td>Amy Coenen</td>
<td>Professor</td>
<td>PhD, RN, FAAN</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Kathleen V. Cowles</td>
<td>Associate Professor</td>
<td>PhD, RN</td>
<td>University of Illinois-Chicago</td>
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<tr>
<td>Julie Darmody</td>
<td>Clinical Associate Professor</td>
<td>PhD, RN, ACNS-BS</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Susan L. Dean-Baar</td>
<td>Professor</td>
<td>PhD, RN, FAAN</td>
<td>Loyola University</td>
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<tr>
<td>Elizabeth C. Devine</td>
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<td>PhD, RN, FAAN</td>
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<td>Jennifer Doering</td>
<td>Associate Professor</td>
<td>PhD, RN</td>
<td>University of Arizona</td>
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<tr>
<td>Anne Dressel</td>
<td>Assistant Professor</td>
<td>PhD, CEPH, MLIS, MA</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Teresa DuChateau</td>
<td>Clinical Assistant Professor</td>
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<td>Timothy Ehlinger</td>
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<td>Michigan State University</td>
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<tr>
<td>Julie Ellis</td>
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<td>Jeanne Erickson</td>
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<td>PhD, RN, AOCN</td>
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<td>Susan A. Fontana</td>
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<tr>
<td>Lauren K. Glass</td>
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<td>PhD, RN, FAAN</td>
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<td>Sandeep Gopalakrishan</td>
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<tr>
<td>Seok Hyun (Joshua) Gwon</td>
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<td>PhD, MSN, RN</td>
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<td>Eugenie Hildebrandt</td>
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<td>Peninnah Kako</td>
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<td>Jennifer Kibicho</td>
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<td>Carol Klingbeil</td>
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<td>Christine Kovach</td>
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<td>Alice M. Kuramoto</td>
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<tr>
<td>Norma Lang</td>
<td>Professor</td>
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<td>Jane S. Leske</td>
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<td>Kim Litwack</td>
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<td>Heidi Luft</td>
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<td>Sally Lundeen</td>
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<td>Sandra Millon-Underwood</td>
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<td>Karen Morin</td>
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<td>Ellen K. Murphy</td>
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<td>Hyun Kyoung Oh</td>
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<td>Michele Polfuss</td>
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<tr>
<td>Beth L. Rodgers</td>
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<td>Kimberly Ryan</td>
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<td>Diane Schadewald</td>
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<tr>
<td>Rachel Schiffman</td>
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<tr>
<td>Florence E. Selder</td>
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<td>Julie Snethen</td>
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<tr>
<td>Patricia E. Stevens</td>
<td>Professor</td>
<td>PhD, RN, FAAN</td>
<td>University of California-San Francisco</td>
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<tr>
<td>Murad Taani</td>
<td>Assistant Professor</td>
<td>PhD, MPH</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>AkkeNeel Talsma</td>
<td>Associate Professor</td>
<td>PhD, RN, FAAN</td>
<td>University of Michigan, Ann Arbor</td>
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<tr>
<td>Vipavee Thongpriwan</td>
<td>Clinical Assistant Professor</td>
<td>PhD, RN</td>
<td>University of Illinois-Chicago</td>
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<tr>
<td>Mary E. Wierenga</td>
<td>Professor</td>
<td>PhD, RN</td>
<td>Michigan State University</td>
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<tr>
<td>Joan A. Wilk</td>
<td>Associate Professor</td>
<td>PhD, RN</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Bev Zabler</td>
<td>Clinical Assistant Professor</td>
<td>PhD, RN</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
</tbody>
</table>

**Contact Information**

**Student Affairs Office**
Cunningham Hall, 129

**Phone:** (414) 229-5047 (Milwaukee)
**Phone:** (262) 595-2480 (Parkside)

www.uwm.edu/nursing (http://www.uwm.edu/nursing/)

**Adult-Gerontology Acute Care Nurse Practitioner, Graduate Certificate**

This 18-credit post graduate Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP) certificate prepares students for certification.
and licensure as Adult-Gerontology Acute Care Nurse Practitioners (AG ACNP). Upon completing the certificate requirements, students will be eligible to sit for the AG ACNP national certification exam offered by the American Nurses Credentialing Center (ANCC) or by the American Association of Critical Care Nurses (AACN). Once nationally certified the AG ACNP is eligible to apply for licensure in all fifty states.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Admission**

The admission requirements of the AG ACNP Post Graduate Certificate are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

- A Master’s or Doctoral degree in Nursing from an accredited program.
- Completion with a grade of B or better of a graduate-level course in advanced physiology/pathophysiology, advanced pharmacology, and advanced health assessment. Evidence of current prescriptive authority in the state of Wisconsin will be accepted in place of advanced pharmacology.
- Current registration as a Registered Nurse in the state of Wisconsin.
- Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
- Resume or Curriculum Vitae (CV).
- Personal statement that includes rationale for certificate study and career goals.
- Personal interview with a faculty member may be requested.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NURS 702</td>
<td>Advanced Practice Nursing Adult-Gerontology Chronic Illness</td>
<td>3</td>
</tr>
<tr>
<td>NURS 703</td>
<td>Advanced Practice Nursing Adult-Gerontology Acute Illness</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Transfer Credit**

The certificate has no allowance for transfer credit.

**Grade Point Average Requirement**

Students must complete all courses with a B or better.

**Time Limit**

It is expected that students will complete the certificate within one year.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Clinical Nurse Specialist, Graduate Certificate**

The Clinical Nurse Specialist Postgraduate Certificate is designed to provide advanced practice preparation as a Clinical Nurse Specialist (CNS) to nurses who hold a Master’s degree in Nursing and are prepared for other roles or population groups. The student will choose one of the following populations: adult/gerontology, pediatric, maternal/infant, or psychiatric/mental health. The program will be taught online with clinical preceptor placements as close as possible to a student’s geographic location.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found...
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

Applicants must meet the following requirements to be eligible for admission to the program:

1. A minimum 3.0 (4.0 scale) cumulative grade point average (GPA) is required in previous undergraduate and graduate programs.
2. Prerequisites: Graduate courses (3 credits each) in physiology, physical assessment, and pharmacology are required with a grade of B or better. Physiology and physical assessment must be within the previous five years and pharmacology must be within three years. Note: Evidence of prescriptive authority granted through a state board of nursing will be accepted in place of graduate pharmacology.

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Credits and Courses**

The CNS Certificate consists of 18 credit hours of coursework. All courses are 3 credits each and are offered in a three-semester sequence so the program can be completed in 12 months. The three practicum courses vary by population focus and must be taken sequentially. The three theory courses vary by population focus and the plan for theory coursework must be approved by the CNS option coordinator. The three courses must be graduate level (700 or above) and provide content across the continuum from wellness through acute care for the selected population.

**Adult/Gerontology Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 832</td>
<td>Clinical Nurse Specialist Practicum I-Adult/Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 833</td>
<td>Clinical Nurse Specialist Practicum II-Adult/Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 834</td>
<td>Clinical Nurse Specialist Practicum III-Adult/Gerontology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theory**

Select 9 credits; recommended courses may include the following:

| NURS 779 | Special Topics Seminar: (with subtitle "Advanced Practice Nursing-Adult/Gerontology Acute Illness") | 9       |

**Pediatric Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 817</td>
<td>Clinical Nurse Specialist Practicum I-Pediatric</td>
<td>3</td>
</tr>
<tr>
<td>NURS 818</td>
<td>Clinical Nurse Specialist Practicum II-Pediatric</td>
<td>3</td>
</tr>
<tr>
<td>NURS 819</td>
<td>Clinical Nurse Specialist Practicum III-Pediatric</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theory**

Select 9 credits; recommended courses may include the following:

| NURS 779 | Special Topics Seminar: (with subtitle "Advanced Practice Nursing-Pediatric Acute Illness") | 9       |

**Maternal/Infant Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 814</td>
<td>Clinical Nurse Specialist Practicum I-Maternal/Infant</td>
<td>3</td>
</tr>
<tr>
<td>NURS 815</td>
<td>Clinical Nurse Specialist Practicum II-Maternal/Infant</td>
<td>3</td>
</tr>
<tr>
<td>NURS 816</td>
<td>Clinical Nurse Specialist Practicum III-Maternal/Infant</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theory**

Select 9 credits; recommended courses may include the following:

| NURS 779 | Special Topics Seminar: (with subtitle "Advanced Practice Nursing-Health Promotion for Women and Childbearing Families") | 9       |

**Credits**

| NURS 779 | Processes of Aging | 18       |

| NURS 760 | Special Topics Seminar: (with subtitle "Special Topics Seminar with subtitle Maternity and Perinatal Care") | 18       |
Certificate program time limits shall be established as follows:

<table>
<thead>
<tr>
<th>Time Limit</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articulation with Degree Programs</td>
<td>taken at UWM is required. A minimum cumulative 3.00 grade point average in certificate courses must be approved by the director of the certificate program. No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policies and must be approved by the director of the certificate program. For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.</td>
</tr>
<tr>
<td>Grade Point Average Requirement</td>
<td>A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.</td>
</tr>
<tr>
<td>Articulation with Degree Programs</td>
<td>1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions: a. Degree programs must approve the courses from certificates that can double count toward the degree. b. All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements) c. Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit. 2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements. 3. A course may not count toward no more than one certificate and one degree. 4. Students may not earn a certificate subsequent to a concentration in the same area.</td>
</tr>
<tr>
<td>Time Limit</td>
<td>Certificate program time limits shall be established as follows: 18 or fewer credits/Three years from initial enrollment in the certificate sequence. 19 or more credits/Four years from initial enrollment in the certificate sequence.</td>
</tr>
</tbody>
</table>

### Psychiatric/Mental Health Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 811</td>
<td>Clinical Nurse Specialist Practicum I - Psychiatric/Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 812</td>
<td>Clinical Nurse Specialist Practicum II - Psychiatric/Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 813</td>
<td>Clinical Nurse Specialist Practicum III - Psychiatric/Mental Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Clinical**

**Theoretical:**

Select 9 credits; recommended courses may include the following:

- COUNS 715 Multicultural Counseling
- NURS 774 Trauma Counseling I: Theory and Research
- NURS 775 Trauma Counseling II: Diagnosis and Treatment
- ED PSY 752 Developmental Psychopathology
- SOC WRK 753 Adult Psychopathology

**Total Credits:** 18

### Additional Requirements

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

### Certification and Licensing

On completion of the CNS Certificate program, graduates with a population focus on adult/gerontology or pediatrics will be eligible to take the national CNS certification exams in adult/gerontology or pediatrics offered by American Nurses Credentialing Center (ANCC, 2013) or by the American Association of Critical Care Nurses (AACN) Certification Corporation (AACN, 2014). Upon successful completion of the CNS certification exam, graduates may choose to apply for prescriptive privileges in the state of Wisconsin as an Advanced Practice Nurse Prescriber or APNP (Wisconsin DSPS, 2013). Currently, CNS certification exams are not available for the maternal/infant or psychiatric/mental health populations.

### Family Nurse Practitioner, Graduate Certificate

The post master's family nurse practitioner certificate is designed for registered nurses that have already completed a master's degree in nursing and wish to pursue preparation as a family nurse practitioner.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application ([https://graduateschool-apply.uwm.edu/](https://graduateschool-apply.uwm.edu/)).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted to a certificate program.

**Admission**

The admission requirements of the post master's family nurse practitioner program are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:
1. A master’s degree in Nursing from an accredited program.
2. Completion with a grade of B or better of a graduate-level course in physiology, pharmacology, comprehensive assessment, and epidemiology. Evidence of prescriptive authority in the state of Wisconsin will be accepted in place of graduate pharmacology.
3. Current registration as a professional nurse in the state of Wisconsin.
4. Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences. Personal interviews with a faculty member may be requested.
5. Completion of an autobiographical sketch.

**Credits and Courses**

Designated coursework in the certificate program is completed under the direction of faculty experts and clinical preceptors. A three consecutive semester sequence of theory and practicum courses totaling 18 credits is required for completion of the post master’s family nurse practitioner certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 767</td>
<td>Family Nurse Practitioner Theory I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 768</td>
<td>Family Nurse Practitioner Theory II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 769</td>
<td>Family Nurse Practitioner Theory III</td>
<td>3</td>
</tr>
<tr>
<td>NURS 757</td>
<td>Family Nurse Practitioner Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 758</td>
<td>Family Nurse Practitioner Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 759</td>
<td>Family Nurse Practitioner Practicum III</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Minimum Grade Requirement**

For continuation in the program, in addition to general Graduate School requirements students must achieve a minimum grade of B in all required FNP practicum courses and a minimum grade of B- in all other required courses.

**Additional Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
   - Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
   - A course may count toward no more than one certificate and one degree.
   - Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Global Health, Undergraduate Certificate (College of Nursing)**

Anne Dressel, Director, Center for Global Health Equity, Nursing, Certificate Coordinator

Deatra Holloway, Senior Advisor, Nursing, CUN 129

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students better comprehend the interdisciplinary approach to understanding and addressing global health issues.

**Eligibility**

The Global Health Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those...
who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

Requirements
To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis. Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator. Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>World Regions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>POL SCI 106</td>
<td>Politics of the World’s Nations</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 103</td>
<td>World Society</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 6 credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Fieldwork</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Internship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Abroad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Independent Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capstone</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NURS 475</td>
<td>Global Health: Ethics and Human Rights</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 439</td>
<td>Culture and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>BMS 204</td>
<td>Plagues, Pandemics, and Epidemics</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
<td>3</td>
</tr>
<tr>
<td>NURS 440</td>
<td>Nursing Specialty</td>
<td>2</td>
</tr>
<tr>
<td>NURS 497</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Global Food Security and Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 683</td>
<td>Healthcare of Immigrants and Refugees</td>
<td>3</td>
</tr>
<tr>
<td>NURS 684</td>
<td>Death and Dying Around the World</td>
<td>3</td>
</tr>
<tr>
<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 374</td>
<td>Health, Wealth, and Democracy</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
</tbody>
</table>

Fieldwork
Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3 credits at the 300-level or above) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through "practical" experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed. The fieldwork requirement can be fulfilled in one of three ways:

- Internship – A number of global health internships are available through the International Studies Major (INTLST 450), as well as other departments and organizations.
- Study Abroad – UWM offers a number of Global Health study abroad programs, through several departments.
- Independent Study – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.
Health Professional Education, Graduate Certificate (College of Nursing)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master's, or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences and Schools of Nursing and Education, and is coordinated through the College of Nursing.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor’s degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

Credits and Courses
The completion of 15 credit hours (5 courses) is required for the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
<tr>
<td>Curricular/Program Planning &amp; Evaluation Courses</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 607</td>
<td>Coordination of Staff Development and Training Program</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
<td></td>
</tr>
<tr>
<td>NURS 752</td>
<td>Curriculum Development in Nursing Education</td>
<td></td>
</tr>
<tr>
<td>Teaching/Instructional Strategies</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 827</td>
<td>Seminar in Adult and Organizational Learning</td>
<td></td>
</tr>
<tr>
<td>NURS 705</td>
<td>Instructional Strategies for Patient Education</td>
<td></td>
</tr>
<tr>
<td>Elective Courses</td>
<td>Select one additional course from the above or from the following:</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 867</td>
<td>Seminar in Continuing Education in the Professions</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 787</td>
<td>Administration of Adult Education Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 547</td>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td></td>
</tr>
<tr>
<td>NURS 764</td>
<td>Changing Health Behaviors</td>
<td></td>
</tr>
<tr>
<td>CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td>NURS 751</td>
<td>Teaching in Practice Disciplines</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

A current listing of courses that meet these requirements can be obtained from the College of Health Sciences or the College of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.
Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Internationally Educated Nurses Transitioning to US Nursing Practice, Undergraduate Certificate

The Undergraduate Certificate for Internationally Educated Nurses Transitioning to US Nursing Practice prepares baccalaureate-educated nurses from outside of the United States to transition successfully to practice in the US.

Requirements
This 16-credit Undergraduate Certificate for Internationally Educated Nurses Transitioning to US Nursing Practice prepares international nurses with baccalaureate degrees in nursing to transition to practice in the US and to make them eligible for licensure as Registered Nurses in the US.

Students are required to complete courses within the certificate with a grade of C or better. The certificate will be completed in one semester.

This certificate is available only to foreign educated nurses and as a result, these nurses are not eligible for financial aid.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAP 435</td>
<td>Advanced Listening, Speaking, and Notetaking Skills for Internationals</td>
<td>4</td>
</tr>
<tr>
<td>NURS 476</td>
<td>Professional Role 4: Leading in Complex Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 478</td>
<td>Clinical Practicum IV: Complex Care</td>
<td>6</td>
</tr>
</tbody>
</table>

NURS 480 Transition to Professional Practice 3

Total Credits 16

Applicants must have graduated with a baccalaureate degree in nursing, have been educated outside of the United States, and will be admitted with permission of the College of Nursing. Students must meet the language proficiency requirements required for regular admission into the undergraduate program at UWM.

Interprofessional Public and Population Health, Graduate Certificate (College of Nursing)

The Interprofessional Public and Population Health Graduate Certificate is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences, College of Nursing, and the Zilber School of Public Health, and is coordinated through the Zilber School of Public Health with administrative support from the College of Nursing.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the...
Articulation with Degree Programs

- Applicants must possess a baccalaureate degree and have a minimum cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (all are 3 credits unless noted):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td>3</td>
</tr>
<tr>
<td>KIN 556</td>
<td>Multilevel Approaches to Changing Physical Activity and Eating Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>or KIN 732</td>
<td>Physical Activity and Health Across the Lifespan</td>
<td></td>
</tr>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
<td>1</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

Additional Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count toward a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Nursing Practice, DNP/Business Administration, MBA

The Lubar School of Business and the University of Wisconsin-Milwaukee College of Nursing collaboratively offer a program designed to provide a combined nursing and business curriculum to strengthen the graduate's performance as a leader and manager in nursing and health care administration.

Requirements

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Students are admitted to both the University of Wisconsin-Milwaukee graduate programs in nursing and business administration. The admission requirements are consistent with those specified by the UWM Graduate School, College of Nursing and Lubar School of Business. Applicants may choose to complete either the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) and must have a BS in Nursing degree and at least two years’ practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

Credits and Courses

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires Bus Adm 701, Business Mathematics (2 cr), and Bus Adm 703, Financial Accounting (3 cr). Bus Adm 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) or have passed the proficiency exam. Bus Adm 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. Bus Adm 701 and Bus Adm 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for Bus Adm 701, 703, and IT.

For the coordinated degree program, students will complete 83 credit hours. A student not completing the requirements for the coordinated
degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree.

### Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td></td>
</tr>
<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
<td></td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td></td>
</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td></td>
</tr>
<tr>
<td>NURS 770</td>
<td>Nursing Administration</td>
<td></td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td></td>
</tr>
<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems</td>
<td></td>
</tr>
<tr>
<td>NURS 826</td>
<td>Nurse Executive Practicum I</td>
<td></td>
</tr>
<tr>
<td>NURS 827</td>
<td>Nurse Executive Practicum II</td>
<td></td>
</tr>
<tr>
<td>NURS 828</td>
<td>Nurse Executive Practicum III</td>
<td></td>
</tr>
<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
<td></td>
</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
<td></td>
</tr>
<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion</td>
<td></td>
</tr>
</tbody>
</table>

### MBA Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
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</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
</tbody>
</table>

### Dually Applied

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
<td></td>
</tr>
</tbody>
</table>

### Constrained Choice Choose two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 727</td>
<td>Health Care Accounting, Law and Ethics</td>
<td></td>
</tr>
<tr>
<td>NURS 711</td>
<td>Economics of Health Care and Health Care Systems</td>
<td></td>
</tr>
</tbody>
</table>

### Transcript Designated Concentrations:

1. Integrating course for the coordinated degree program.

### Additional Requirements

A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree. Students must fulfill the MBA Program Boot Camp and Executive Development activities to meet all graduation requirements.

### DNP Project

The candidate will complete a final comprehensive clinical project as part of the leadership practice immersion experience, which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the DNP project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

### Time Limit

Students in the coordinated MBA/DNP degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

### Nursing Practice, DNP: Adult-Gerontology Acute Care Nurse Practitioner

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

1. A bachelor's degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master's degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. Current registration as a professional nurse.
5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Submission of two writing samples.
9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication
A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

Credits and Courses

Post Baccalaureate Curriculum
The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
<td></td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td></td>
</tr>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td></td>
</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td></td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td></td>
</tr>
<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
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</tr>
</tbody>
</table>

Specialty Theory and Practicum 27

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
<td></td>
</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
<td></td>
</tr>
<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion ¹</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 65

¹ May be completed over 1 or 2 semesters.

Post-Master’s Curriculum Entry Points

1. Post Advanced Practice Master’s Curriculum
The Post Advanced Practice Master’s Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master’s program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master’s programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master’s program may be recognized based on review of the previous Master’s Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.
Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

### Adult-Gerontology Acute Care Nurse Practitioner Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Practice Specialty Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NURS 707</td>
<td>Advanced Pharmacology: Application to Advanced Nursing Practice</td>
<td>9</td>
</tr>
<tr>
<td>NURS 753</td>
<td>Pathophysiologic Basis of Advanced Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td><strong>Specialty Theory Electives</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>NURS 702</td>
<td>Advanced Practice Nursing Adult-Gerontology Chronic Illness</td>
<td></td>
</tr>
<tr>
<td>NURS 703</td>
<td>Advanced Practice Nursing Adult-Gerontology Acute Illness</td>
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<td>NURS 704</td>
<td>Advanced Practice Nursing Adult-Gerontology Critical Illness</td>
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<td><strong>Practicum in the Area of Specialization</strong></td>
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<td>Adult-Gerontology Acute Care Nurse Practitioner Practicum I</td>
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<td>Adult-Gerontology Acute Care Nurse Practitioner Practicum II</td>
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<td>NURS 824</td>
<td>Adult-Gerontology Acute Care Nurse Practitioner Practicum III</td>
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</table>

**Total Credits** 38

### Additional Requirements

#### Faculty Advisor
The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

#### Leadership Practice Immersion
Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

#### Time Limit
Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

#### Minimum Grade Requirement
For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.
Residence
The student must meet minimum Graduate School residence requirements.

DNP Project II: Proposal/Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student’s mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

DNP Project III: Leadership Practice Immersion
The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

Nursing Practice, DNP: Clinical Nurse Specialist: Adult-Gerontology
The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Maternal-Infant
- Clinical Nurse Specialist-Pediatrics
- Community Public Health
- Nursing System Leadership-Nurse Executive
- Nursing System Leadership-Informatics

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

1. A bachelor’s degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master’s degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. Current registration as a professional nurse.
5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Submission of two writing samples.
9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication
A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.
Credits and Courses

Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credit hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Theoretical Coursework</strong></td>
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<tr>
<td></td>
<td><strong>Foundations of Advanced Nursing Practice Core</strong></td>
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<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
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<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
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<tr>
<td></td>
<td><strong>Evidence Based Practice Core</strong></td>
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<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
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<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
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<td></td>
<td><strong>Systems Core</strong></td>
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<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
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<td>NURS 803</td>
<td>Health Policy</td>
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<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
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<td><strong>Specialty Theory and Practicum</strong></td>
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<td><strong>Project Core</strong></td>
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<td><strong>Total Credits</strong></td>
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</table>

1. May be completed over 1 or 2 semesters.

Post-Master’s Curriculum Entry Points

1. Post Advanced Practice Master’s Curriculum

The Post Advanced Practice Master’s Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master’s program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master’s programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master’s program may be recognized based on review of the previous Master’s Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td></td>
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<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
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<td>NURS 804</td>
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<tr>
<td></td>
<td><strong>Evidence Based Practice Core</strong></td>
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</tr>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
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</tr>
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<td>NURS 805</td>
<td>Translational and Implementation Science</td>
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<tr>
<td></td>
<td><strong>Systems Core</strong></td>
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<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
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<td>NURS 803</td>
<td>Health Policy</td>
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<td><strong>Project Core</strong></td>
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1. May be completed over 1 or 2 semesters.

2. Post Generalist Master’s Curriculum (MN or equivalent)

The Post Generalist Master’s Curriculum is a minimum of 38 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
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<td><strong>Foundations of Advanced Practice Core</strong></td>
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<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
<td></td>
</tr>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
<td></td>
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<td>NURS 804</td>
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<td><strong>Evidence Based Practice Core</strong></td>
<td>3</td>
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<td>NURS 805</td>
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<tr>
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<td><strong>Specialty Theory and Practicum</strong></td>
<td>18</td>
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<td><strong>Project Core</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>38</td>
</tr>
</tbody>
</table>

1. May be completed over 1 or 2 semesters.

3. Post-Master’s Curriculum (Other Nursing Master’s Degrees)

The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent).
Examples may include a Master's in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master's Program coursework and transcript.

**Clinical Nurse Specialist Requirements**

The theory courses vary by population focus and must provide content across the continuum from wellness through acute care for the selected population. The plan for theory course work must be approved by the CNS option coordinator. The following courses under the Specialty Theory Electives heading are examples of those that can be included as specialty support credits. Other courses can be included with advisor approval.

<table>
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<tr>
<td>NURS 707</td>
<td>Advanced Pharmacology: Application to Advanced Nursing Practice</td>
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<td>NURS 753</td>
<td>Pathophysiologic Basis of Advanced Nursing Practice</td>
<td>1</td>
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<tr>
<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
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**Specialty Theory Electives**  
NURS 705 Instructional Strategies for Patient Education  
NURS 760 Processes of Aging  
NURS 762 Family Theory and Intervention Strategies for Advanced Nursing Practice  
NURS 763 Issues in Women's Health and Development  
NURS 764 Changing Health Behaviors  
NURS 774 Trauma Counseling I: Theory and Research  
NURS 775 Trauma Counseling II: Diagnosis and Treatment  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing I: Health Promotion of Women and Childbearing Families)  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing II: Women and Childbearing Families with Acute and Chronic Health Conditions)  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing: Theoretical Foundations for Child Health)  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing: Health Promotion and Acute Illnesses in Children)  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing: Care of the Child with Chronic Health Conditions)  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Chronic Illness)  
NURS 779 Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Acute Illness)  

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<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
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<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>1</td>
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<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
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<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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</table>

**Practicum**  
NURS 832 Clinical Nurse Specialist Practicum I-Adult/Gerontology  
NURS 833 Clinical Nurse Specialist Practicum II-Adult/Gerontology  
NURS 834 Clinical Nurse Specialist Practicum III-Adult/Gerontology  

**Total Credits**  
30

**Additional Requirements**

**Faculty Advisor**

The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

**Leadership Practice Immersion**

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

**Time Limit**

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

**Minimum Grade Requirement**

For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

**Residence**

The student must meet minimum Graduate School residence requirements.

**DNP Project II: Proposal/Doctoral Preliminary Examination**

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed...
to validate the student’s mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

**DNP Project III: Leadership Practice Immersion**
The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

**Nursing Practice, DNP: Clinical Nurse Specialist: Maternal-Infant**
The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Maternal-Infant
- Clinical Nurse Specialist-Pediatrics
- Community Public Health
- Nursing System Leadership-Nurse Executive
- Nursing System Leadership-Informatics

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart ([http://uwm.edu/graduateschool/program-deadlines/](http://uwm.edu/graduateschool/program-deadlines/)) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars ([https://uwm.edu/onestop/dates-and-deadlines/](https://uwm.edu/onestop/dates-and-deadlines/)).

**Admission**
The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

1. A bachelor’s degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master’s degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. Current registration as a professional nurse.
5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Submission of two writing samples.
9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

**Reapplication**
A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

**Credits and Courses**

**Post Baccalaureate Curriculum**
The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

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<th>Credits</th>
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<tbody>
<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
<td>30</td>
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</table>
### Post-Master's Curriculum Entry Points

#### 1. Post Advanced Practice Master's Curriculum

The Post Advanced Practice Master’s Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master’s program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master’s programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master’s program may be recognized based on review of the previous Master’s Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

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<tr>
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<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
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<td><strong>Evidence Based Practice Core</strong></td>
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<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<td><strong>Systems Core</strong></td>
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<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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<td>Health Policy</td>
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<td><strong>Project Core</strong></td>
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<td>DNP Project I: Plan</td>
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<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion ^1</td>
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Total Credits 65

^1 May be completed over 1 or 2 semesters.

#### 2. Post Generalist Master’s Curriculum (MN or equivalent)

The Post Generalist Master’s Curriculum is a minimum of 38 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

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<td>NURS 804</td>
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<td><strong>Evidence Based Practice Core</strong></td>
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<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
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</tr>
<tr>
<td><strong>Specialty Theory and Practicum</strong></td>
<td>18</td>
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</tr>
<tr>
<td><strong>Project Core</strong></td>
<td>8</td>
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<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
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</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
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</tr>
<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion ^1</td>
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</tr>
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</table>

Total Credits 38

^1 May be completed over 1 or 2 semesters.

#### 3. Post-Master's Curriculum (Other Nursing Master's Degrees)

The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent). Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NURS 707</td>
<td>Advanced Pharmacology. Application to Advanced Nursing Practice</td>
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</table>

### Clinical Nurse Specialist Requirements

The theory courses vary by population focus and must provide content across the continuum from wellness through acute care for the selected population. The plan for theory course work must be approved by the CNS option coordinator. The following courses under the Specialty Theory Electives heading are examples of those that can be included as specialty support credits. Other courses can be included with advisor approval.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td></td>
</tr>
</tbody>
</table>

**Project Core** 8

^1 May be completed over 1 or 2 semesters.
### Practicum Courses

<table>
<thead>
<tr>
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<th>Title</th>
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<td>NURS 753</td>
<td>Pathophysiologic Basis of Advanced Nursing Practice</td>
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<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
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#### Specialty Theory Electives

<table>
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<tr>
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<tbody>
<tr>
<td>NURS 705</td>
<td>Instructional Strategies for Patient Education</td>
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<tr>
<td>NURS 760</td>
<td>Processes of Aging</td>
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<tr>
<td>NURS 762</td>
<td>Family Theory and Intervention Strategies for Advanced Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 763</td>
<td>Issues in Women's Health and Development</td>
<td></td>
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<td>NURS 764</td>
<td>Changing Health Behaviors</td>
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<td>NURS 774</td>
<td>Trauma Counseling I: Theory and Research</td>
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<td>NURS 775</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td></td>
</tr>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing I: Health Promotion of Women and Childbearing Families)</td>
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<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing II: Women and Childbearing Families with Acute and Chronic Health Conditions)</td>
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<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing: Theoretical Foundations for Child Health)</td>
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</tr>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing: Health Promotion and Acute Illnesses in Children)</td>
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<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing: Care of the Child with Chronic Health Conditions)</td>
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<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Chronic Illness)</td>
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</tr>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Acute Illness)</td>
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</tr>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (Special Topics: Palliative Care)</td>
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<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
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<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
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</tr>
<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
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<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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</table>

#### Additional Requirements

**Faculty Advisor**

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

**Leadership Practice Immersion**

Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

**Time Limit**

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

**Minimum Grade Requirement**

For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

**Residence**

The student must meet minimum Graduate School residence requirements.

**DNP Project II: Proposal/Doctoral Preliminary Examination**

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

**DNP Project III: Leadership Practice Immersion**

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only once. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.
Nursing Practice, DNP: Clinical Nurse Specialist: Pediatrics

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Maternal-Infant
- Clinical Nurse Specialist-Pediatrics
- Community Public Health
- Nursing System Leadership-Nurse Executive
- Nursing System Leadership-Informatics

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

1. A bachelor’s degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master’s degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. Current registration as a professional nurse.
5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Submission of two writing samples.
9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication
A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

Credits and Courses

Post Baccalaureate Curriculum
The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
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</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
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</tr>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td></td>
</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td></td>
</tr>
</tbody>
</table>

Foundations of Advanced Nursing Practice Core

Evidence Based Practice Core

Systems Core
### Nursing Practice, DNP: Clinical Nurse Specialist: Pediatrics

**NURS 773** Information Systems to Support Clinical Decision-Making  
**NURS 803** Health Policy  
**NURS 804** Healthcare Organization and Systems Leadership for Advanced Practice

**Specialty Theory and Practicum** 27  
**Project Core** 8  
**NURS 993** DNP Project I: Plan  
**NURS 994** DNP Project II: Proposal  
**NURS 995** DNP Project III: Leadership Practice Immersion

**Total Credits** 65

1 May be completed over 1 or 2 semesters.

### Post-Master’s Curriculum Entry Points

#### 1. Post Advanced Practice Master’s Curriculum

The Post Advanced Practice Master’s Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master’s program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master's programs preparing Advanced Practice Nurses (generally greater than 40 credits).

Up to six credits from the previous Advanced Practice Master’s program may be recognized based on review of the previous Master’s Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

<table>
<thead>
<tr>
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<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td><strong>Evidence Based Practice Core</strong></td>
<td></td>
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<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
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<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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<td>NURS 993</td>
<td>DNP Project I: Plan</td>
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<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
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<td>NURS 995</td>
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<td><strong>Total Credits</strong> 32</td>
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</table>

1 May be completed over 1 or 2 semesters.

#### 2. Post Generalist Master’s Curriculum (MN or equivalent)

The Post Generalist Master’s Curriculum is a minimum of 38 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

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<tr>
<td><strong>Code</strong></td>
<td><strong>Title</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td><strong>Foundations of Advanced Practice Core</strong></td>
<td></td>
<td></td>
</tr>
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<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
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<td><strong>Evidence Based Practice Core</strong></td>
<td></td>
<td></td>
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<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
<tr>
<td><strong>Specialty Theory and Practicum</strong> 18</td>
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<tr>
<td><strong>Project Core</strong> 8</td>
<td></td>
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</tr>
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<td>DNP Project II: Proposal</td>
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</tr>
<tr>
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<td><strong>Total Credits</strong> 38</td>
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1 May be completed over 1 or 2 semesters.

#### 3. Post-Master’s Curriculum (Other Nursing Master’s Degrees)

The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent). Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

### Clinical Nurse Specialist Requirements

The theory courses vary by population focus and must provide content across the continuum from wellness through acute care for the selected population. The plan for theory course work must be approved by the CNS option coordinator. The following courses under the Specialty Theory Electives heading are examples of those that can be included as specialty support credits. Other courses can be included with advisor approval.

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<td><strong>Code</strong></td>
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<td><strong>Credits</strong></td>
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<td>Advanced Pharmacology: Application to Advanced Nursing Practice</td>
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<td>NURS 753</td>
<td>Pathophysiologic Basis of Advanced Nursing Practice</td>
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<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
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<td>NURS 705</td>
<td>Instructional Strategies for Patient Education</td>
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<td>Processes of Aging</td>
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</table>
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NURS 763  Issues in Women's Health and Development
NURS 764  Changing Health Behaviors
NURS 774  Trauma Counseling I: Theory and Research
NURS 775  Trauma Counseling II: Diagnosis and Treatment
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NURS 779  Special Topics Seminar: (Advanced Practice Nursing II: Women and Childbearing Families with Acute and Chronic Health Conditions)
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NURS 779  Special Topics Seminar: (Advanced Practice Nursing: Health Promotion and Acute Illnesses in Children)
NURS 779  Special Topics Seminar: (Advanced Practice Nursing: Care of the Child with Chronic Health Conditions)
NURS 779  Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Chronic Illness)
NURS 779  Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Acute Illness)
COUNS 710  Counseling: Theory and Issues
COUNS 714  Essentials of Counseling Practice
ED PSY 743  Human Development: Study of Infancy and Early Childhood
ED PSY 746  Human Development: Study of the Adolescent

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<tr>
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<tr>
<td>NURS 817</td>
<td>Clinical Nurse Specialist Practicum I- Pediatric</td>
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<td>NURS 818</td>
<td>Clinical Nurse Specialist Practicum II- Pediatric</td>
<td>3</td>
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<tr>
<td>NURS 819</td>
<td>Clinical Nurse Specialist Practicum III- Pediatric</td>
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Total Credits 9

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<tr>
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<tr>
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<td>Clinical Nurse Specialist Practicum I- Pediatric</td>
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<tr>
<td>NURS 818</td>
<td>Clinical Nurse Specialist Practicum II- Pediatric</td>
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</tr>
<tr>
<td>NURS 819</td>
<td>Clinical Nurse Specialist Practicum III- Pediatric</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 9

**Clinical Nurse Specialist: Pediatrics Practicum**

**Additional Requirements**

**Faculty Advisor**
The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

**Leadership Practice Immersion**
Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

**Time Limit**
Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

**Minimum Grade Requirement**
For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

**Residence**
The student must meet minimum Graduate School residence requirements.

**DNP Project II: Proposal/Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

**DNP Project III: Leadership Practice Immersion**
The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

**Nursing Practice, DNP: Community Public Health**
The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative
leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist: Adult-Gerontology
- Clinical Nurse Specialist: Maternal-Infant
- Clinical Nurse Specialist: Pediatrics
- Community/Public Health
- Nursing System Leadership: Nurse Executive
- Nursing System Leadership: Informatics

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

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1. A bachelor’s degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master’s degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. Current registration as a professional nurse.

5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Submission of two writing samples.
9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication
A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

Credits and Courses

Post Baccalaureate Curriculum
The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

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<tr>
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<th>Title</th>
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<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
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<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<tr>
<td>NURS 735</td>
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<td></td>
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<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<tr>
<td>NURS 725</td>
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</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
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<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
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<tr>
<td>NURS 803</td>
<td>Health Policy</td>
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<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
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Specialty Theory and Practicum 27

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<th>Code</th>
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<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
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Post-Master’s Curriculum Entry Points

1. Post Advanced Practice Master’s Curriculum

The Post Advanced Practice Master’s Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master’s program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master’s programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master’s program may be recognized based on review of the previous Master’s Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

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<tr>
<th>Code</th>
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<td>Foundations of Advanced Practice Core</td>
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<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<td>Evidence Based Practice Core</td>
<td></td>
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<td>NURS 720</td>
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<tr>
<td>NURS 995</td>
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<td>Total Credits</td>
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1. May be completed over 1 or 2 semesters.

2. Post Generalist Master’s Curriculum (MN or equivalent)

The Post Generalist Master’s Curriculum is a minimum of 38 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

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<td>NURS 836</td>
<td>Advanced Community Health Nursing Assessment, Program Planning, Evaluation</td>
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<td>Area of Focus 1</td>
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<td>NURS 711</td>
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<td>NURS 770</td>
<td>Nursing Administration</td>
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<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
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<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
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<td>BUS ADM 733</td>
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<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
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<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
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<tr>
<td>PH 740</td>
<td>Special Topics in Public Health: (Program Evaluation)</td>
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<td>Practicum</td>
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<tr>
<td>NURS 829</td>
<td>Advanced Community/Public Health Nursing Practicum I</td>
<td></td>
</tr>
<tr>
<td>NURS 830</td>
<td>Advanced Community/Public Health Nursing Practicum II</td>
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</table>
Nursing Practice, DNP: Family Nurse Practitioner

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist: Adult-Gerontology
- Clinical Nurse Specialist-Maternal-Infant
- Clinical Nurse Specialist-Pediatrics
- Community Public Health
- Nursing System Leadership-Nurse Executive
- Nursing System Leadership-Informatics

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

### Additional Requirements

**Faculty Advisor**

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

**Leadership Practice Immersion**

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

**Time Limit**

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

**Minimum Grade Requirement**

For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

**Residence**

The student must meet minimum Graduate School residence requirements.

**DNP Project II: Proposal/Doctoral Preliminary Examination**

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

**DNP Project III: Leadership Practice Immersion**

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.
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3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
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Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

Credits and Courses

Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credit hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

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<td>NURS</td>
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Foundations of Advanced Nursing Practice Core

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<tbody>
<tr>
<td>NURS 726</td>
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<td>Theory for Advanced Practice</td>
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Evidence Based Practice Core

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<tr>
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<tr>
<td>NURS 805</td>
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Systems Core

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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</tr>
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Post-Master's Curriculum Entry Points

1. Post Advanced Practice Master's Curriculum

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<tbody>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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Evidence Based Practice Core

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Project Core

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<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
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<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion</td>
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Total Credits: 65

1 May be completed over 1 or 2 semesters.
**Family Nurse Practitioner Requirements**

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<td>NURS 753</td>
<td>Pathophysilogic Basis of Advanced Nursing Practice</td>
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<tr>
<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
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<th>Code</th>
<th>Title</th>
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<td>NURS 758</td>
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<tr>
<td>NURS 759</td>
<td>Family Nurse Practitioner Practicum III</td>
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</tbody>
</table>

**Additional Requirements**

**Faculty Advisor**

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

**Leadership Practice Immersion**

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

**Time Limit**

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

**Minimum Grade Requirement**

For continuation in the program, in addition to general Graduate School requirements, students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

**Residence**

The student must meet minimum Graduate School residence requirements.

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3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
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The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication
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Credits and Courses

Post Baccalaureate Curriculum
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Nursing Practice, DNP: Nursing System Leadership: Informatics

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<tbody>
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<td>NURS 803</td>
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<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
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<tr>
<td><strong>Specialty Theory and Practicum</strong></td>
<td></td>
<td><strong>27</strong></td>
</tr>
<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
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</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
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<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion ¹</td>
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<tr>
<td><strong>Total Credits</strong></td>
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¹ May be completed over 1 or 2 semesters.

2. Post Generalist Master’s Curriculum (MN or equivalent)
The Post Generalist Master’s Curriculum is a minimum of 38 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

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<td>Theory for Advanced Practice</td>
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<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
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Evidence Based Practice Core: 3

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<tr>
<th>Code</th>
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<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
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Specialty Theory and Practicum: 18

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<tr>
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<tr>
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<tr>
<td><strong>Total Credits</strong></td>
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</table>

¹ May be completed over 1 or 2 semesters.

3. Post-Master’s Curriculum (Other Nursing Master’s Degrees)
The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent). Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

Nursing System Leadership Requirements
Students develop a plan of study that includes a 6 credits of required coursework, 12 credits that support their area of focus and a 9 credit practicum. Other courses can be included with advisor approval.

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<td>NURS 776</td>
<td>Clinical Informatics</td>
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<td>AD LDSP 647</td>
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<tr>
<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
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<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
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<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
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<tr>
<td>NURS 770</td>
<td>Nursing Administration</td>
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<tr>
<td>NURS 791</td>
<td>Clinical Informatics Practicum I</td>
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</tr>
<tr>
<td>NURS 792</td>
<td>Clinical Informatics Practicum II</td>
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</table>
Nursing Practice, DNP: Nursing System Leadership: Nurse Executive

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist: Adult-Gerontology
- Clinical Nurse Specialist-Maternal-Infant
- Clinical Nurse Specialist-Pediatrics
- Community Public Health
- Nursing System Leadership-Nurse Executive
- Nursing System Leadership-Informatics

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

Nursing System Leadership

Nursing System Leadership-Informatics

Nursing System Leadership-Nurse Executive

Leadership Practice Immersion

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

Residence

The student must meet minimum Graduate School residence requirements.

DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student’s mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

Additional Requirements

Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

Leadership Practice Immersion

The candidate must, as the final step toward the degree, pass an oral translation under the direction of the faculty advisor.

• The following courses are examples of those that can be included in a student’s area of focus.
1. A bachelor's degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.

2. A master's degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master's DNP option.

3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.

4. Current registration as a professional nurse.

5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.

6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.

7. Completion of an autobiographical sketch.

8. Submission of two writing samples.

9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

**Reapplication**

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

**Credits and Courses**

**Post Baccalaureate Curriculum**

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credit hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>NURS 726</td>
<td>Advanced Perspectives on Cultural Diversity and Disparities in Health Care</td>
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<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td></td>
</tr>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
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**Evidence Based Practice Core**

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<tr>
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<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
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<td>NURS 805</td>
<td>Translational and Implementation Science</td>
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**Systems Core**

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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Post-Master's Curriculum Entry Points

1. Post Advanced Practice Master's Curriculum

The Post Advanced Practice Master's Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master's program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master's programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master's program may be recognized based on review of the previous Master's Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

<table>
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<tr>
<th>Code</th>
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<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
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<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
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**Systems Core**

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<td>NURS 750</td>
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**Project Core**

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<td>DNP Project II: Proposal</td>
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<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion</td>
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</table>

Total Credits: 65

1 May be completed over 1 or 2 semesters.
Nursing System Leadership: Nurse Executive Practicum. Other courses can be included with advisor approval.

Coursework, 12 credits that support their area of focus and a 9 credit practicum.

### Nursing System Leadership Requirements

Students develop a plan of study that includes a 6 credits of required coursework, 12 credits that support their area of focus and a 9 credit practicum. Other courses can be included with advisor approval.

### Nursing System Leadership: Nurse Executive Practicum

#### Required Coursework

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<td>NURS 770</td>
<td>Nursing Administration</td>
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**Area of Focus**

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<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
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<tr>
<td>PH 740</td>
<td>Special Topics in Public Health: (Program Evaluation)</td>
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### Total Credits

**27**

1. May be completed over 1 or 2 semesters.

### Additional Requirements

#### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

#### Leadership Practice Immersion

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

#### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

#### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

#### Residence

The student must meet minimum Graduate School residence requirements.

#### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student’s mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

#### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.
Nursing Practice, DNP: Psychiatric Mental Health Nurse Practitioner

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Part-time study is also an option. Students may be admitted for the Fall or Spring semester. Students complete a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Community/Public Health
- Nursing System Leadership (Nurse Executive or Informatics)

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist - Adult-Gerontology
- Clinical Nurse Specialist - Maternal-Infant
- Clinical Nurse Specialist - Pediatrics
- Community Public Health
- Nursing System Leadership - Nurse Executive
- Nursing System Leadership - Informatics

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uw.m.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.m.edu/onestop/dates-and-deadlines/).

Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

1. A bachelor's degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master's degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. Current registration as a professional nurse.
5. Completion of the Graduate Record Examination (GRE) if the previous GPA calculated by the Graduate School is less than 3.2.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Submission of two writing samples.
9. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication

A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

Credits and Courses

Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (12 credits), a research core (9 credits) a systems core (9 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

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Post-Master’s Curriculum Entry Points

1. Post Advanced Practice Master’s Curriculum

The Post Advanced Practice Master’s Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master’s program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master’s programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master’s program may be recognized based on review of the previous Master’s Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

2. Post Generalist Master’s Curriculum (MN or equivalent)

The Post Generalist Master’s Curriculum is a minimum of 38 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

3. Post-Master’s Curriculum (Other Nursing Master’s Degrees)

The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent). Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

Psychiatric Mental Health Nurse Practitioner Requirements

The Psychiatric Mental Health Nurse Practitioner Requirements include a core theoretical course (9 credits), a specialty theory elective (9 credits), and a practicum (9 credits). The total credits for the Psychiatric Mental Health Nurse Practitioner Requirements are 32 credits.
Additional Requirements

Faculty Advisor
The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

Leadership Practice Immersion
Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

Time Limit
Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

Minimum Grade Requirement
For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

Residence
The student must meet minimum Graduate School residence requirements.

DNP Project II: Proposal/Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student’s mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

DNP Project III: Leadership Practice Immersion
The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

Nursing, BS
The Bachelor of Science in Nursing (BS in Nursing) program at UW-Milwaukee will prepare graduates to be science-based, compassionate nurse leaders through innovative and quality educational programs for all specialties and settings of practice.

As the largest College of Nursing in the state, UW-Milwaukee partners with over 160 clinical agencies to prepares students for beginning positions of responsibility and leadership in providing professional care for clients and their families in a variety of healthcare settings. Classroom and clinical experiences provide students with the knowledge and skills needed to begin a nursing career after graduation including: critical-thinking, clinical leadership, advocacy, and application of the nursing process to deliver care.

The BS in Nursing program is offered on the Milwaukee campus and through a Consortial Program at the UW-Parkside and UW-Washington County campuses.

University of Wisconsin-Milwaukee College of Nursing is accredited through the Council of Baccalaureate and Higher Degree Programs of the Commission on Collegiate Nursing Education (CCNE) and the State of Wisconsin Board of Nursing.

Pre-Professional Program

New Freshmen
Students intending to pursue study in professional nursing are advised to complete the following units (one unit equals one year) in high school:

- 1/2 unit of speech (if available)
- 4 units of a foreign language
- 3 units of college preparatory mathematics at or above algebra level (required by UWM)
- 1/2 unit of computer science
- 1 unit of biology
- 1 unit of chemistry
- 1 unit of history
- 3 units of social studies
- 4 units of English (required by UWM)

In addition to completing high school courses, applicants seeking admission to the pre-nursing program must have a composite ACT score of at least 19 (SAT equivalent of 910).

Transfer Students
Students intending to transfer into the pre-nursing curriculum must meet the following criteria:

1. Completion of a minimum of 15 credits;
2. Cumulative GPA of 2.5 on all completed coursework; and
3. Completion of one transferable science class with a grade of B or better.

(The required pre-nursing science courses include: BIO SCI 101, BIO SCI 202, BIO SCI 203, CHEM 101, CHEM 103, NURS 251 and 252, NURS 253, NURS 254, NURS 255.)

The policies and procedures of the College apply to all students even though the student may be enrolled in courses in another college or school within the University.

The general regulations governing UWM presented in this catalog apply to all pre-nursing students. The pre-nursing classification does not automatically guarantee acceptance into the nursing major.
Non-Nurse College Graduates

After prerequisites are met, non-nurse college graduates may be admitted into the professional nursing major or the master’s (MN) program. Individuals’ records, including consideration of related work experiences, are assessed to assign transfer credit for previous college-level coursework and to offer opportunities for credit by examination.

Professional Program

Students who seek to enter the major and meet eligibility criteria (see below) are required to file an application with the Student Affairs Office, College of Nursing. (This form is in addition to the application form required for admission to the University.) The College of Nursing Undergraduate Program Committee reviews the applications and makes recommendations for admission. Admission to the nursing major is highly competitive. The average GPA of students accepted to the nursing major can be significantly higher than the minimum required GPA of 2.75, and a science minimum GPA of 2.5, needed for application to the major.

Application Deadlines

Students who seek to enter the nursing major in September must submit applications by the preceding January 15; for January entrance the deadline is the preceding August 15.

Eligibility Criteria

Students are required to meet the following criteria to be reviewed for selection into the nursing major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Coursework</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>NURS 203</td>
<td>Human Growth and Development Across the Life Span</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>NURS 251</td>
<td>Genetics and Genomics in Healthcare</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
<td>5 credits</td>
<td></td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
<td>5 credits</td>
<td></td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Sociology (any course)</td>
<td></td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective</td>
<td></td>
<td>3 credits</td>
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</tr>
</tbody>
</table>

Additional Professional Admission Requirements

Demonstration of competency in Math and English. Completion of the Transfer Reference Form must be submitted by the Dean of Nursing if an applicant has been enrolled in clinical nursing courses at another college/university. The form and/or attached letter should reflect a positive recommendation for the student’s progression into the nursing major.

An interview with the student making application may be requested at the discretion of the Undergraduate Program Committee.

BS in Nursing Curriculum

Students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the Milwaukee campus; at least 20 of these credits must be earned in nursing. The required courses are listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Coursework</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER Humanities</td>
<td></td>
<td>6 credits</td>
<td></td>
</tr>
<tr>
<td>GER Arts</td>
<td></td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Any HIST Course</td>
<td></td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Any SOCIOL Intro Course</td>
<td></td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>GER Social Science Elective</td>
<td></td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology (3 credits)</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology (4 credits)</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
<td>5 credits</td>
<td></td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
<td>5 credits</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition (2 credits)</td>
<td>2 credits</td>
<td></td>
</tr>
</tbody>
</table>
Every nursing student is required to maintain a minimum of a C average (cumulative GPA of 2.0 on a 4.0 scale) on all work attempted in each semester or summer session. Failure to meet this minimum GPA will automatically result in a status of academic probation.

In addition to maintaining a cumulative GPA of 2.0, a student must earn at least a C (2.0) in each required nursing course. (In a practicum nursing course, a student must earn at least a C in both the clinical and theoretical components in order to receive a C as the final course grade.) Any student who earns a grade below C (2.0) in a required nursing course is automatically dropped from the nursing major. Such a student must appeal to the Undergraduate Program Committee for readmission and permission to repeat the course in which a minimum grade of C was not earned.

In a nursing course with limited enrollment or a waiting list, qualified students who have not taken the course previously will have enrollment priority. Progression to the next level of courses is not permitted until all courses of the previous level have been successfully completed.

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expected to provide for their own personal health and accident insurance coverage.

A physical examination and specified immunizations are required of all students prior to enrollment in nursing practice courses. Expenses of this examination are the student’s responsibility. Evidence of a physical examination — to be completed by a nurse practitioner, physician, or a physician assistant of the student’s choice — must be submitted to the UWM College of Nursing Student Affairs Office on a date specified by the College of Nursing. The examination must be completed within 90 days before the date on which the student begins clinical nursing coursework. Students who do not meet these requirements may not continue in a clinical nursing practicum course.

Students are required to pass a 10-panel urine drug screen prior to participating in a clinical nursing practicum course. The purposes of the drug screen are to comply with expectations of area healthcare agencies, to provide optimal healthcare, and to support professional nursing’s zero tolerance position related to the unlawful use of substances. Students must abide by the drug screen policies of each healthcare agency to which they are assigned for clinical practicums. Students are also required to complete a CPR certification program through American Heart Association at a health care provider level.

Illness or Prolonged Absence

Students are expected to be present at all scheduled classes and clinical laboratory experiences. Since space in nursing courses is assigned during the first week of the semester, students are expected to be present for all instructional periods during that week as well. Frequent or prolonged absences from scheduled classes and/or clinical experiences may necessitate that the student drop a nursing course. Any planned interruption in coursework should be discussed with the student’s advisor at the earliest possible date.

Safe Professional Practice in Clinical Settings

Students are expected to demonstrate patterns of professional behaviors that follow the legal and ethical codes of nursing; promote the actual or potential well-being of clients, healthcare workers, and self in the biological, psychological, sociological, and cultural realms; demonstrate accountability in preparation, documentation, communication, and continuity of care; and show respect for the human rights of individuals.

A student whose pattern of behavior is found to be unsafe may be terminated from a clinical practicum for reason of unsafe practice at any time during the semester. If the behavior is identified before the drop date, the student will be directed to drop. If the drop date has passed, the student will receive a grade of F for the course. In order to continue in the nursing program, a student who is terminated from a clinical practicum must appeal to the Undergraduate Program Committee for re-admission to the nursing program.

Travel

Students in nursing are responsible for arranging transportation to and from all agencies or clients’ homes used to provide clinical experience for the program. They are also responsible for any related liability. Students are expected to carry insurance on their vehicles.

Uniforms

Information about the uniform, a one-time investment, is sent to each student with the official letter of acceptance into the major. Students purchase their uniforms after acceptance.

Professional Credentials

Wisconsin state law requires nurses to be licensed to practice nursing within the state. Licensure is obtained by endorsement or by passing an examination. Students graduating from the College of Nursing are eligible to write the examination if they:

1. are at least 18 years of age;
2. are graduates of a high school or its equivalent;
3. are able to speak, read, and write English; and
4. pay the fee for licensure.

Applicants for registration/licensure in the State of Wisconsin will be asked to state if they have ever been convicted of a criminal offense, excluding minor traffic violations. When individuals have such a conviction, an explanation is requested. An investigation may follow depending upon the circumstances and all the facts related to the situation. Some organizations may require background reviews prior to acceptance of a student by the placement site.

Individual course plans may vary. Consult your academic advisor to confirm a plan of study.

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
</tr>
<tr>
<td>NURS 103</td>
<td>Freshman Seminar in Professional Nursing</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
</tr>
<tr>
<td>SOCIOL Course (GER Social Science)</td>
<td>3</td>
</tr>
<tr>
<td>GER Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>17</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
</tr>
<tr>
<td>NURS 203</td>
<td>Human Growth and Development Across the Life Span</td>
</tr>
<tr>
<td>NURS 251</td>
<td>Genetics and Genomics in Healthcare</td>
</tr>
<tr>
<td>History/GER Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>GER Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>GER Art Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 351</td>
<td>Professional Role 1: Foundations of Professional Practice</td>
</tr>
<tr>
<td>NURS 399</td>
<td>Concepts of Pathophysiology and Pharmacotherapeutics</td>
</tr>
<tr>
<td>NURS 352</td>
<td>Health and Illness Concepts 1: Introduction</td>
</tr>
</tbody>
</table>
Competencies/Program Outcomes

The graduate of the UWM College of Nursing is prepared to practice as a beginning generalist in a variety of settings. In addition, the graduate will possess knowledge and skills that qualify her or him to pursue life-long learning and advanced study. The UWM College of Nursing undergraduate and graduate programs are directed toward enhancing the health of those who live and work in urban communities.

Patient-centered Care
The graduate will provide holistic care that recognizes patients’ (individuals, families, groups, and communities) preferences, values, and needs and respects patients or their designees as full partners in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.

Professionalism
The graduate will demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

Leadership
The graduate will influence the behavior of individuals or groups of individuals within the environment in a way that will facilitate the establishment and acquisition/achievement of shared goals.

Systems-based Practice
The graduate will demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystem resources to provide care that is of optimal quality and value (Adapted from ACGME, n.d.).

Informatics and Technology
The graduate will use information and technology to communicate, manage knowledge, mitigate error, and support decision making (QSEN, 2007).

Communication
The graduate will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes.

Teamwork and Collaboration
The graduate will function within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development (Adapted from QSEN, 2007).

Safety
The graduate will minimize risk of harm to patients and providers through both system effectiveness and individual performance (QSEN, 2007).

Quality Improvement
The graduate uses data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2007).

Evidence-based Practice
The graduate will identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients’ preferences, experience and values to make practice decisions (Adapted from QSEN, 2007).

Honors in the College of Nursing

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Nursing, MN

Master of Nursing
The Master of Nursing program is offered to prepare Advanced Generalist Nurses.

There are two entry options for the Master of Nursing Program:

1. Traditional program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Direct Entry program for individuals with a degree in a field other than nursing and are not licensed as a Registered Nurse. This option includes an additional 16 month curriculum at the beginning of the program that leads to eligibility to sit for the NCLEX-RN examination.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Admission to the traditional program is the fall and spring of each year. Admission to the direct entry program is fall only. The admission requirements of the Advanced Generalist master's program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

Traditional Option
1. A bachelor's degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale).
2. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the five years immediately preceding admission.
3. Current registration as a professional nurse in the State of Wisconsin.
4. Completion of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) within the last five years. The master's program admission requirement of the GRE (http://uwm.edu/graduateschool/admission/#gre) will be waived for students who have completed a master's degree or a cumulative undergraduate GPA of 3.2 or higher as calculated by the UWM Graduate School.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences. Personal interview with a faculty member may be requested.
6. Completion of an autobiographical sketch.

Direct Entry Option
1. A bachelor's degree, with a minimum undergraduate grade point average of at least 3.00 (4.0 scale). Applicants with an undergraduate grade point average below a 3.00 but above a 2.75 may be considered for admission if, by the application deadline, the student either:
   a. Has an advanced degree with a grade point average above 3.00, OR
   b. Has completed a minimum of 24 credits post-baccalaureate with a grade point average above 3.00. At least one required science course must be included in the post-baccalaureate work.
2. Completion, with a grade of B or higher, and within the five years immediately preceding admission, of college coursework in the following areas:
   • upper-level undergraduate course in statistics
   • anatomy and physiology
   • growth and development
   • microbiology

3. Completion of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) within the last five years. The GRE (http://uwm.edu/graduateschool/admission/#gre) requirement is waived for applicants whose prior education includes completion of a master's degree or a cumulative undergraduate GPA of 3.2 or higher as calculated by the UWM Graduate School.

4. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences. A personal interview with a faculty member may be requested.
5. Completion of an autobiographical sketch.

These data are used by the Admissions Subcommittee as indicators of academic potential.

Faculty Advisor
The student is assigned to a faculty advisor at the time of admission to advise and supervise the student’s studies as specified in Graduate School regulations.

Credits and Courses

Direct Entry Curriculum
Students admitted to the Direct Entry Option complete a 16-month, full-time pre-licensure curriculum prior to beginning the advanced practice nursing master’s program. Successful completion of all courses in the pre-licensure curriculum with a grade of B- or better is required prior to beginning the advanced practice nursing curriculum. Attainment of a Registered Nurse license is required prior to beginning the summer of the second year of the program.

Pre-licensure Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 653G</td>
<td>Foundations in Pathophysiology for Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NURS 654G</td>
<td>Health Assessment and Promotion</td>
<td>3</td>
</tr>
<tr>
<td>NURS 657G</td>
<td>Pharmacotherapeutics for Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 663G</td>
<td>Transformation to Professional Practice</td>
<td>2</td>
</tr>
<tr>
<td>NURS 670G</td>
<td>Nursing Care of Adults and Older Adults I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 671G</td>
<td>Nursing Care of Adults and Older Adults II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 672G</td>
<td>Nursing Care of Women and Infants</td>
<td>2</td>
</tr>
<tr>
<td>NURS 673G</td>
<td>Nursing Care of Children and Families</td>
<td>2</td>
</tr>
<tr>
<td>NURS 674G</td>
<td>Mental Health Nursing Care Across the Lifespan</td>
<td>2</td>
</tr>
<tr>
<td>NURS 717</td>
<td>Community Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 680G</td>
<td>Nursing and Society</td>
<td>4</td>
</tr>
<tr>
<td>NURS 681G</td>
<td>Professional Role in Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 685G</td>
<td>Clinical Reasoning</td>
<td>5</td>
</tr>
<tr>
<td>NURS 686G</td>
<td>Professional Nursing Practicum I</td>
<td>3</td>
</tr>
</tbody>
</table>
Students accepted post BSN will complete the MN program by 
credits in the post-licensure MN curriculum. 

If enrolled Fall 2015 or after: 

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 712</td>
<td>Health Promotion Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 707</td>
<td>Advanced Pharmacology: Application to Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 753</td>
<td>Pathophysiologic Basis of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>NURS 709</td>
<td>Leading and Managing in Systems of Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 723</td>
<td>Evidence-Based Care Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 734</td>
<td>Master of Nursing Residency I ¹</td>
<td>3</td>
</tr>
<tr>
<td>NURS 789</td>
<td>Master of Nursing Residency II (Fulfills Master’s Capstone Requirement) ¹</td>
<td>3</td>
</tr>
<tr>
<td>NURS 699G</td>
<td>Transformation to Clinical Leadership</td>
<td>1</td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Connotes clinical course or clinical component 

**Additional Requirements**

**Minimum Grade Requirement**

For continuation in the program, in addition to general Graduate School requirements students must achieve a minimum grade of B- in all required Master of Nursing practicum courses and a minimum grade of B- in all other required courses and a cumulative GPA of 3.00.

**Master’s Clinical Project**

The student will complete a final comprehensive clinical project.

**Time Limit**

Students in the Master of Nursing program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

**Nursing, PhD**

The PhD program in Nursing at the University of Wisconsin-Milwaukee prepares nurses as scholars to conduct independent and collaborative research, to develop and test theory relevant to nursing, and to improve the quality of care by expanding the body of nursing knowledge. Scholars will be prepared to serve the urban community and improve the general accessibility and acceptability of health care.

Specialization is achieved through an approved program of study and includes program elements of coursework, dissertation, and direction of faculty advisors. This specialization is focused on a particular area of nursing practice and the social context within which it occurs.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart [here](http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars [here](https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**

An applicant must meet Graduate School requirements [here](http://uwm.edu/graduateschool/admission/) plus the following College of Nursing requirements to be considered for admission to the doctoral program in Nursing:

1. A bachelor’s or master’s degree in Nursing or Health related field.
2. A cumulative grade point average of 3.2 on a 4.0 scale for all previous coursework.
3. Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
4. Completion of a graduate-level statistics course with a grade of B or better within the last 5 years.
5. A written statement prepared by the applicant describing previous professional experience, personal career goals, research interests motivation for doctoral study, and educational objectives to be accomplished in the program.
6. Recommendations from at least three persons who have known the applicant in a professional capacity.
7. Two examples of original work that demonstrate the applicant's academic potential.
8. An interview may be required of applicants to the doctoral program. Telephone or Zoom interview may be used when travel is prohibitive.

Reapplication
A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses
Minimum degree requirements are 61 graduate credits beyond the bachelor's degree, at least 31 of which must be earned in residence at the University of Wisconsin-Milwaukee. The College of Nursing requires a minimum of 49 graduate credits beyond the master's degree in nursing or master's graduate core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 801</td>
<td>Foundations of Inquiry for Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 802</td>
<td>The Science of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 820</td>
<td>Analysis of Nursing Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>NURS 809</td>
<td>Integrative Studies</td>
<td>3</td>
</tr>
<tr>
<td>Elective Credits</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Research Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 808</td>
<td>Multivariate Statistics for Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>NURS 881</td>
<td>Measurement for Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 882</td>
<td>Qualitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 883</td>
<td>Quantitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 885</td>
<td>Advanced Quantitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>or NURS 886</td>
<td>Advanced Qualitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 890</td>
<td>Issues in Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>NURS 899</td>
<td>Practicum in Nursing Research</td>
<td>4</td>
</tr>
<tr>
<td>Dissertation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NURS 997</td>
<td>Doctoral Dissertation (3 credits minimum)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 49

Specialization is achieved through an approved program of study and includes program elements of minor field coursework, supervised research experiences, dissertation, and the direction of faculty advisors. The student specializes in a particular area of nursing practice and the social context within which it occurs. The plan for this is developed in consultation with the major professor. Minimum requirements for all formal coursework other than dissertation research can be expected to take at least two academic years of study.

Students admitted without a master's degree in nursing must complete 12 credits of master's program graduate core courses before beginning doctoral level nursing courses. The graduate core courses that must be completed are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Post baccalaureate students admitted to the doctoral program will not be granted a master’s degree in nursing unless all requirements for the master’s degree in nursing are met.

Additional Requirements

Major Professor as Advisor
The student is expected to affirm their Major Professor by the end of her/his second semester of full-time study or the equivalent in earned credits. The date for submission will be published for each semester by the PhD Program Director. The Major Professor will be the student’s research advisor, and will serve as chairperson of his/her Comprehensive Preliminary Examination Committee and the Dissertation Committee. The PhD student must select a Major Professor who is a member of the graduate faculty of the College of Nursing and who has agreed to serve.

Minimum Grade Requirement
For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures/), students must achieve a minimum grade of B- in all required courses.

Minor Field
The student must complete a minor of 8 to 12 credits, 6 or more of these credits to be earned from courses in departments outside the College of Nursing. Such courses are selected for their relevance to the student’s area of specialization, and are to be taken in the substantive content of the selected minor field.

Language Requirement
Foreign language competency may be required at the option of the student’s major professor.

Residence
The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate
the student's mastery of the content of the doctoral program curriculum and readiness to conduct independent research within the student's area of specialization as identified in the formal plan of study.

**Dissertation**
The candidate must write a dissertation, which demonstrates ability to formulate a research topic and pursue independent and original investigation under the direction of the major professor.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and readmitted to the program or candidacy.

**Time Limit**
The student must complete all requirements for the degree within seven years from the date of initial enrollment in the program. The student must complete all requirements for the degree within four years from the time of attainment of dissertation status.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page.

## Nursing, RN to BS Program

Flexible, affordable options have been arranged for Registered Nurses to facilitate BSN completion. These include face-to-face courses offered in partnership with area hospitals and technical colleges, the collaborative University of Wisconsin System BSN@Home online option, and the UW Flexible Option allowing for the demonstration of competency through assessment. Registered Nurses who wish to earn a baccalaureate degree can progress on a full- or part-time basis, at a speed compatible with their other personal and professional commitments.

Nurses who graduated from Wisconsin Technical Colleges after Dec. 31, 1989, can transfer credits from these programs through formal VTAE articulation agreements.

## Admission

Admission requirements for all RN-BSN completion programs include a past Associate’s Degree or Diploma in nursing and a past cumulative GPA of 2.5 or higher as well as a Wisconsin or Illinois registered nursing license. Registered Nurses follow admission procedures for transfer students, with deadlines well in advance of the beginning of each semester. The UW Flexible Option has unique admission requirements and admits students every month. For additional information about the UW Flexible Option, students can call 1-877-895-3276. To ensure success in enrollment and advising, individuals interested in BSN completion, online or face-to-face, should consult with an advisor in the Student Affairs Office, (414) 229-5047. The advisor will provide information on all degree completion options and route the student through the appropriate admission procedures. The advisor will also work with the student to complete an individual plan of study.

## RN to BS Curriculum

Registered Nurse students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the UWM campus; at least 20 of these credits must be earned in nursing.

### Code | Title | Credits
--- | --- | ---
ENGLISH 102 | College Writing and Research | 3
Humanities | 3-6
The Arts | 0-3
History | 3
Social Science | 3
Sociology | 3
PSYCH 101 | Introduction to Psychology | 3
Growth and Development | 3
Chemistry | 3
Biochemistry (or alternative) | 3
BIO SCI 202 & BIO SCI 203 | Anatomy and Physiology I and Anatomy and Physiology II | 8
Microbiology | 3
Nutrition | 2-3
Electives | 19-25

### Competencies

- Math
- English
- Cultural Diversity
- Foreign language (may or may not apply)

### Nursing

#### Advanced Nursing Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UWS NSG 407</td>
<td>Foundations of Professional Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>UWS NSG 441</td>
<td>Chronic Care Management</td>
<td>3</td>
</tr>
<tr>
<td>UWS NSG 446</td>
<td>Research and Evidence-Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>UWS NSG 447</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>UWS NSG 453</td>
<td>Information Management and Healthcare Technology</td>
<td>3</td>
</tr>
<tr>
<td>UWS NSG 454</td>
<td>Community Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 445</td>
<td>Capstone Practicum for Registered Nurses ³</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Nursing Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 204</td>
<td>Global Maternal and Child Health: From Evidence to Action</td>
<td>3</td>
</tr>
<tr>
<td>NURS 251</td>
<td>Genetics and Genomics in Healthcare</td>
<td></td>
</tr>
<tr>
<td>NURS 490</td>
<td>Special Studies in Nursing</td>
<td></td>
</tr>
<tr>
<td>NURS 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>UWS NSG 317</td>
<td>Health Assessment</td>
<td></td>
</tr>
<tr>
<td>UWS NSG 365</td>
<td>Current Topics of Nursing</td>
<td></td>
</tr>
<tr>
<td>UWS NSG 369</td>
<td>Clinical Pharmacology</td>
<td></td>
</tr>
<tr>
<td>UWS NSG 448</td>
<td>Mental Health Across the Care Continuum</td>
<td></td>
</tr>
<tr>
<td>UWS NSG 375</td>
<td>Genetics and Genomics for Health Professionals</td>
<td></td>
</tr>
<tr>
<td>UWS NSG 316</td>
<td>Palliative Care</td>
<td></td>
</tr>
</tbody>
</table>
The graduate will demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

Leadership
The graduate will influence the behavior of individuals or groups of individuals within the environment in a way that will facilitate the establishment and acquisition/achievement of shared goals.

Systems-based Practice
The graduate will demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystem resources to provide care that is of optimal quality and value (Adapted from ACGME, n.d.).

Informatics and Technology
The graduate will use information and technology to communicate, manage knowledge, mitigate error, and support decision making (QSEN, 2007).

Communication
The graduate will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes.

Teamwork and Collaboration
The graduate will function within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development (Adapted from QSEN, 2007).

Safety
The graduate will minimize risk of harm to patients and providers through both system effectiveness and individual performance (QSEN, 2007).

Quality Improvement
The graduate uses data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2007).

Evidence-based Practice
The graduate will identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients’ preferences, experience and values to make practice decisions (Adapted from QSEN, 2007).

Honors in the College of Nursing

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Peace Studies and Conflict Resolution, Undergraduate Certificate
The Peace Studies and Conflict Resolution Undergraduate Certificate is premised on the notion that helping people work together to creatively manage conflict will result in more peaceful and just societies, locally and internationally.

Building peace in our community, nation, and world will depend on our ability to work well together to solve problems and pursue opportunities. The Certificate aims to help students build the foundation in these essential skills, and is open to students majoring in any field who wish to explore the meaning of peace, including human welfare and quality of life, as well as the resolutions of different types of political, economic, or social conflicts.

The certificate can enhance the resume of students going into social work, education, public administration, law, healthcare, international affairs, human resources and global business. The program is interdisciplinary combining coursework from history, political science, communication, economics, anthropology, and sociology.
Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

**Eligibility**

The Peace Studies and Conflict Resolution Undergraduate Certificate is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. The program leading to the certificate is open to students majoring in any field.

**Requirements**

A student must complete 18 credits in the program; nine of these must be in advanced courses (300 level and above). All students are required to complete an exit survey before the certificate is awarded. A 2.500 GPA must be achieved in courses prescribed for the certificate. At least one-half of the work for the certificate must be completed at UWM.

Students interested in the Peace Studies and Conflict Resolution Undergraduate Certificate should consult with the coordinator or the advisor to plan a program.

There are three components to the program:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td></td>
</tr>
<tr>
<td>COMMUN 365</td>
<td>Negotiation Skills Workshop</td>
<td></td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td></td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td></td>
</tr>
<tr>
<td>POL SCI 175</td>
<td>Introduction to International Relations</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Fieldwork</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>Study Abroad</td>
<td></td>
</tr>
<tr>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

| Electives | Select 9 credits | 9 |

| Total Credits | 18 |

The purpose of this requirement is to enable the student to engage in peace studies through "practical" experience or research. The student should be engaged in the "practice of peace" through community service, conflict identification and education, environmental awareness, governmental politics, or social change. The area of study must be approved by the coordinator of the peace studies certificate and must meet the requirements of the department through which it is being completed. The fieldwork requirement may be fulfilled in one of three ways: an internship, study abroad, or independent study.

**Electives**

Students are encouraged to construct an area of concentration from their elective credits. Suggested areas of concentration may be geographic and/or thematic, such as:

- World regions and countries
- World religions and practices
- Conflict resolution skills
- International relations
- Sustainable development
- Peace studies/education
- Environmental studies
- Social change/social justice
- Economic development

The following list contains of approved elective courses. For the specific content and prerequisites of each course, click on the subject code and course number. Additional courses may be approved with the consent of the Peace Studies and Conflict Resolution Program coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 265</td>
<td>Psychological Effects of Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRIC 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>CES 490</td>
<td>Senior Seminar: Conservation and Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td>COMMUN 192</td>
<td>First-Year Seminar: (Communication and Conflict)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 363</td>
<td>Communication in Human Conflict</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 365</td>
<td>Negotiation Skills Workshop</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (Genocide and Communication)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 662</td>
<td>Seminar in Communication: (Communication and Civility)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
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<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (Existentialism or Children/Youth as War Casualties)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
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</table>

**Subtitles:**

- Contemporary Women Writers and the Ethics of Violence
- Gender and the Historical Novel
- Literature and Human Rights
- Women and War in Latin America and the Caribbean
- COMPLIT 233 | Literature and Film: (Film and War)                 | 3       |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (Border Narratives)</td>
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<tr>
<td>CRM JST 416</td>
<td>Domestic Violence Research</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 420</td>
<td>Violence and the Criminal Justice System</td>
<td>3</td>
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<tr>
<td>CRM JST 592</td>
<td>Critical Issues in Criminal Justice: (Restorative Justice)</td>
<td>1-3</td>
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<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
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<tr>
<td>ED POL 411</td>
<td>Conflict and Change in Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 520</td>
<td>Peace Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 521</td>
<td>Nonviolence in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 522</td>
<td>Abusive Relationships: Community Problems, Community Solutions</td>
<td>3</td>
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<tr>
<td>ED POL 579</td>
<td>Current Topics in Cultural Foundations of Education: (Antiracist Education)</td>
<td>1-6</td>
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<tr>
<td>ENGLISH 150</td>
<td>Multicultural America</td>
<td>3</td>
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<tr>
<td>ENGLISH 192</td>
<td>First-Year Seminar: (Vietnam in American Culture)</td>
<td>3</td>
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<tr>
<td>ENGLISH 247</td>
<td>Literature and Human Experience:</td>
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<tr>
<td></td>
<td>Literature of the Ecological Vision</td>
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<td></td>
<td>Whitman and Ginsberg - Liberating American Bards</td>
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<tr>
<td>ENGLISH 293</td>
<td>Literature and Media:</td>
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<td>Subtitles:</td>
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<tr>
<td></td>
<td>African American Literature on Film</td>
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<td></td>
<td>Vietnam in American Culture</td>
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<td>ETHNIC 255</td>
<td>Migration and Gender: Starbucks, Sex Trafficking, and Nannies</td>
<td>3</td>
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<tr>
<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 120</td>
<td>Our Physical Environment</td>
<td>3</td>
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<tr>
<td>GEOG 125</td>
<td>Introduction to Environmental Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment</td>
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<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology</td>
<td>3</td>
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<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
<td>3</td>
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<tr>
<td>GLOBAL 371</td>
<td>Rethinking Global Security</td>
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<tr>
<td>GLOBAL 442</td>
<td>Humanitarianism in Global Perspective</td>
<td>3</td>
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<tr>
<td>GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
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<tr>
<td>GLOBAL 451</td>
<td>Access, Security, and Intercultural Contexts in Global Communications</td>
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<td>GLOBAL 461</td>
<td>The Politics and Policy of Sustainability</td>
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<td>GLOBAL 471</td>
<td>Strategies for Realizing Security in Global Contexts</td>
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<tr>
<td>GLOBAL 499</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
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<tr>
<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
<td>3</td>
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<tr>
<td>HCA/BMS/COMSDIS/KIN/OCCTHPY/ THERREC 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
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<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
<td>3</td>
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<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
<td>3</td>
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<tr>
<td></td>
<td>Subtitles:</td>
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<tr>
<td></td>
<td>Civil Strife in Northern Ireland</td>
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<td></td>
<td>The Civil Rights Movement in America</td>
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</tr>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Subtitles:</td>
<td></td>
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<tr>
<td></td>
<td>Buddhist Thought</td>
<td></td>
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<tr>
<td></td>
<td>Introduction to Buddhist Thought</td>
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</tr>
<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
<td>3</td>
</tr>
<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion: (Women, War, and Religion in Early Medieval Europe)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 600</td>
<td>Seminar in History:</td>
<td>3</td>
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<tr>
<td></td>
<td>Subtitles:</td>
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<tr>
<td></td>
<td>Incarcerated – Japanese Americans and World War II</td>
<td></td>
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<tr>
<td></td>
<td>The Cold War as History</td>
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<td></td>
<td>World Wars and Anti-Socialist Politics</td>
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<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (War Stories – Art and Experience from the Front Lines)</td>
<td>3</td>
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<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>JAMS 661</td>
<td>Seminar in Media Communication and Society. (War and the Media)</td>
<td>3</td>
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<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 244</td>
<td>Ethical Issues in Health Care:</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 271</td>
<td>Philosophical Traditions: (Western Great Lakes American Indian Philosophy)</td>
<td>3</td>
</tr>
</tbody>
</table>
Application deadlines vary by program, please review the Application Deadlines all fifty states. American Nurse Credentialing Center (ANCC) and to apply for licensure in for the Psychiatric Mental Health Nurse Practitioner exam offered by the certificate (post master's) prepares students for certification and the admission requirements of the post master's psychiatric mental health nurse practitioner program are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

- A master's degree in Nursing from an accredited program.
- Completion of five years of graduate-level course in physiology, pharmacology, comprehensive assessment. Evidence of prescriptive authority in the state of Wisconsin will be accepted in place of graduate pharmacology.
- Current registration as a professional nurse in the state of Wisconsin.
- Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences. Personal interviews with a faculty member may be requested.
- Completion of an autobiographical sketch.
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.

**Application**
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/)
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

### Credits and Courses

Post Masters Psychiatric Mental Health Nurse Practitioner Certificate (18 credits total). All six courses are required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 741</td>
<td>Psychiatric Mental Health Theory I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 742</td>
<td>Psychiatric Mental Health Theory II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 743</td>
<td>Psychiatric Mental Health Theory IIIcrib</td>
<td>3</td>
</tr>
<tr>
<td>NURS 781</td>
<td>Psychiatric Mental Health NP Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 782</td>
<td>Psychiatric Mental Health NP Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 783</td>
<td>Psychiatric Mental Health NP Practicum III</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Additional Requirements

Transfer Credit
None allowed.

Certificate Conferral
The certificate will be awarded upon successful completion of the requirements (i.e., once all grades for the certificate courses are officially recorded with a cumulative GPA of 3.0 or more). Successful completion of the certificate program will be noted on the student’s official transcript.

Time Limit
It is expected that students will complete the certificate in one year.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Sustainable Peacebuilding, MSP

The College of Nursing offers an interdisciplinary professional graduate degree program leading to a Master of Sustainable Peacebuilding (MSP). The MSP is designed to prepare students for careers in peacebuilding—e.g., international development, conflict resolution, resource stewardship. The MSP curriculum is designed to develop student expertise in systems thinking, social-ecological interactions, and the application of such concepts to peacebuilding and development fields. In addition to fulfilling all Graduate School master’s degree requirements (http://uwm.edu/graduateschool/masters-requirements/), MSP students are required to take 44 credits over the course of six semesters—two full calendar years. Only full-time students will be accepted to the program.

Students completing the MSP will:

- Classify the various components of complex social-ecological systems and identify appropriate intervention strategies.
- Recognize patterns of human-environment interaction, including drivers of change resulting in conflict, development, and peacebuilding.
- Acquire critical knowledge across at least four distinct disciplines relevant to development and peacebuilding and relate and translate knowledge among the disciplines.
- Facilitate effective group problem-solving processes, which includes communicating confidently and effectively to diverse audiences.
- Assess systemic outcomes of peacebuilding programs and policies and recommend adaptive modifications for improvement.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
The Master of Sustainable Peacebuilding admits students to begin in fall semester only. Applicants must satisfy Graduate School requirements (http://uwm.edu/graduateschool/admission/) for admission as well as provide the following materials:

1. Two letters of recommendation from persons familiar with the applicant’s academic or professional work, preferably one academic and one professional recommendation.
2. A writing sample that demonstrates the applicant’s critical thinking, research, and writing skills as well as the applicant’s ability to think across disciplines.
3. A current resume that clearly articulates the applicant’s professional, international, and intercultural experiences as well as language exposure and proficiencies.

Please check the MSP Website (http://www4.uwm.edu/letsci/msp/) for up-to-date information on eligibility, application requirements, and deadlines.

Credits and Courses

46 credits are required for the MSP degree, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MSP 760</td>
<td>The Politics and Policy of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>MSP 761</td>
<td>Complex Human-Environmental Interactions</td>
<td>3</td>
</tr>
<tr>
<td>MSP 770</td>
<td>Preparing for Sustainable Peacebuilding and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>MSP 771</td>
<td>Holistic Peacebuilding Practice</td>
<td>3</td>
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<tr>
<td>MSP 785</td>
<td>Fundamentals of Project Management for Sustainable Peacebuilding</td>
<td>3</td>
</tr>
<tr>
<td>MSP 786</td>
<td>Reflective Practice in Sustainable Peacebuilding</td>
<td>3</td>
</tr>
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</table>

Core Seminars and Workshops

<table>
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<tr>
<td>MSP 780</td>
<td>Transdisciplinary Research Methods and Information Literacy</td>
<td>2</td>
</tr>
<tr>
<td>MSP 781</td>
<td>Innovation, Evaluation, and Adaptive Management</td>
<td>3</td>
</tr>
<tr>
<td>MSP 790</td>
<td>Negotiation and Group Problem Solving Skills</td>
<td>3</td>
</tr>
<tr>
<td>MSP 791</td>
<td>Leadership and Program Management for Sustainable Peacebuilding</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives
Select 12 credits in consultation with advisor(s); each course should fit into one of the following content areas:

- Public and Environmental Health
- Ecosystem Services and Resource Stewardship
- Political Economy
- Human Security and Development
- Language and Culture
- Religion and Belief Systems
- Governance and Policy

### Independent Study

Students may register for the following with approval from the supervising faculty member and the student's faculty advisor:

- MSP 799 Independent Study

### Fieldwork

Select one of the following for two (six-week) fieldwork experiences (3 credits each):

- MSP 797 Study Abroad
- MSP 798 Internship in Sustainable Peacebuilding

### Total Credits

Total Credits: 46

1 Students will complete two (six-week) fieldwork experiences (3 credits each), locally in Milwaukee, elsewhere in the U.S., or abroad. The program is designed so that students will complete fieldwork during the summer semester between Year 1 and Year 2, and again during the summer semester after Year 2. Students will engage in work that focuses on a pertinent issue in the broader context of peacebuilding, e.g., food security, water conflict, public health, etc. Students will select from current MSP projects, or develop their own projects.

### Additional Requirements

#### Advising

As specified in the regulations of the Graduate School, a major professor will be assigned to every person enrolled in the program to advise and supervise his or her work. Students may request a specific faculty advisor who aligns with their research and professional interests, if desired; however, fulfillment of such requests is not guaranteed.

#### Master's Paper

All students must prepare and orally defend a final master's paper following the second summer internship (due in July of graduation year). The master's paper—an "Integrative Synthesis"—will reflect upon a student's breadth of experiences during the MSP program, and clearly demonstrate a student's ability to formulate an argument, analyze data, systematically present results, and show familiarity with relevant scholarship. The paper will be a critical discussion of core MSP concepts as they relate to peacebuilding, based upon a student's coursework and, primarily, professional experiences. Each student, throughout the course of study, will keep a portfolio containing items such as coursework, internship evaluations, and additional elements to help guide the paper. To ensure students are progressing such that they will be successful in their final papers and presentations, the faculty advisor and MSP program coordinator will assess with each student his/her portfolio periodically during the course of study to address deficiencies and advise the student regarding appropriate adjustments.

### Transfer Credits

Individuals with prior graduate coursework may receive permission to count up to 9 credits of that work toward the Master of Sustainable Peacebuilding if the Advisory Committee accepts the courses as relevant to the program of study and if the courses meet Graduate School requirements for transfer. Sustainable Peacebuilding core breadth courses, seminars, and the summer field internships must be taken at UWM.

### Time Limit

All degree requirements must be completed within five years of initial enrollment.

#### Trauma Informed Care, Graduate Certificate (College of Nursing)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

#### Admission

Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

### Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/COUNS/NURS/OCCTHPY 774</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK/COUNS/NURS/OCCTHPY 775</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electives

Select 9 elective credits (see Potential Electives list below) 9
Recommended Field Work
Select 3-6 credits from the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td>3-6</td>
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<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
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<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
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<tr>
<td>SOC WRK 821</td>
<td>Field Instruction V</td>
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<tr>
<td>COUNS 764</td>
<td>Supervised Practicum I in School Counseling</td>
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</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum I in Clinical Mental Counseling</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
<td></td>
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<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18-21

1 Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in trauma-informed practice field settings, contingent on the respective department's field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

Potential Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/CRM JST 497</td>
<td>Study Abroad: (Bristol or South Africa or Austria)</td>
<td>1-6</td>
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<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice:</td>
<td>2</td>
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<tr>
<td></td>
<td>(Qualifying topics: Violent &amp; Traumatized Families or Motivational Interviewing)</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
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<td>SOC WRK 691</td>
<td>Practice Methods in Social Work:</td>
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<tr>
<td></td>
<td>(Topic: Community Building &amp; Mindfulness)</td>
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<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
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<td>SOC WRK 818</td>
<td>Treatment of Co-Occurring Disorders</td>
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<td>PSYCH 711</td>
<td>Current Topics in Psychology:</td>
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<tr>
<td></td>
<td>(Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</td>
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<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
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<tr>
<td>PH 732</td>
<td>Youth Mental Health Practice for Non Mental Health Professionals</td>
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<td>COUNS 704</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview</td>
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<td>&amp; COUNS 705</td>
<td>and Multicultural Practice: Awareness and Knowledge of Others 1</td>
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<td>COUNS 715</td>
<td>Multicultural Counseling</td>
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<td>COUNS 744</td>
<td>Multicultural Mental Health Guidelines,</td>
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<td></td>
<td>Working with First Nations Persons</td>
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<td>COUNS 812</td>
<td>Clinical Studies in Counseling</td>
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<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
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<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
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</tbody>
</table>

1 COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
PUBLIC HEALTH (JOSEPH J. ZILBER SCHOOL OF)

Are you fascinated by links among cells, society, and health? Are you interested in championing community health, health equity, social and environmental justice? Then you may wish to prepare for a career in public health at the Joseph J. Zilber School of Public Health (https://uw.m.edu/publichealth/).

The Zilber School is Wisconsin's only school of public health accredited by the Council on Education for Public Health. Our highly trained faculty are passionate educators leading research programs and engaging communities to impact an array of emerging and entrenched public health issues. The Zilber School offers both undergraduate (starting spring 2019) and graduate programs that respond to the increasing student and market demand for individuals with degrees in public health.

The Zilber School currently has 27 full-time faculty across the five major public health areas (biostatistics, community and behavioral health promotion, environmental health, epidemiology, and public health policy and administration). Since its founding in 2009, Zilber School faculty have attracted more than $10 million in grants that cover critical research into issues like air pollution and autism, cancer, cardiovascular disease, health disparities, infant mortality, mass incarceration, nutrition, tobacco and e-cigarettes, water health, and more. Our students obtain a highly interdisciplinary education from one of the nation's top universities for research and community engagement.

About Public Health

Public health is concerned with protecting the health and well-being of entire communities and populations. It is the science and art of preventing disease, prolonging life, and promoting health and well-being through the organized efforts of society. Public health also works to eliminate social inequities in health – we address how the advantages and disadvantages that people experience based on their social circumstances influence population health. Whereas medicine mostly treats people once they become sick, those of us working in public health strive to prevent people from getting sick or injured in the first place.

Public health asks:

- What makes some people healthy and others less healthy?
- How can we create a society in which everyone has a chance to thrive?

From conducting scientific research to advocating for policies and educating about health, public health professionals work to ensure conditions in which all people can thrive. These include the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems that shape these conditions of daily life (referred to as social determinants of health). Thus, public health covers a wide range of factors that affect population health and well-being, such as economic and social policies, poverty, environmental hazards, access to quality healthcare, health-promoting behaviors, and genes.

The Zilber School embraces its mission to advance population health, health equity, and social and environmental justice among diverse communities in Milwaukee, the state of Wisconsin, and beyond through education, research, community engagement, and advocacy for health-promoting policies and strategies. We educate current and future public health professionals in the science, practice, critical thinking, and leadership skills necessary to promote population health and reduce health inequities.

Programs

Degree Programs

The Zilber School of Public Health offers bachelor's, master's, and doctoral degree programs. The new BS degree in Public Health begins in spring 2019. Undergraduates who do not major in Public Health may still take public health courses to satisfy university general education requirements: PH 101 and PH 306 meet the Social Sciences (SS) GER, and PH 303 meets the Natural Sciences (NS) GER. Our graduate degree programs include four doctoral programs and the Master of Public Health (MPH) degree with five tracks. Please contact applyph@uw.m.edu to learn more about our programs.

Undergraduate

- Public Health, BS (p. 1267)

Master's

- Biostatistics, MS (p. 1261)
- Public Health, MPH/Social Work, MSW (p. 1271)
- Public Health, MPH: Biostatistics (p. 1274)
- Public Health, MPH: Community and Behavioral Health Promotion (p. 1276)
- Public Health, MPH: Environmental Health Sciences (p. 1278)
- Public Health, MPH: Epidemiology (p. 1281)
- Public Health, MPH: Public Health Policy and Administration (p. 1283)

Doctoral

- Environmental Health Sciences, PhD (p. 1263)
- Epidemiology, PhD (p. 1265)
- Public Health, PhD: Biostatistics (p. 1286)
- Public Health, PhD: Community and Behavioral Health Promotion (p. 1288)

Certificates

- Interprofessional Public and Population Health, Graduate Certificate (Zilber School of Public Health) (p. 1266)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Paul Auer</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Carvan III</td>
<td>Professor (School of Freshwater Sciences)</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
<td>✔</td>
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<tr>
<td>Name</td>
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<tr>
<td>Young Cho</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois at Chicago</td>
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<tr>
<td>Ron Cisler</td>
<td>Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Phuong (Phoenix) D. Do</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>The RAND Graduate School</td>
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<tr>
<td>Paul Florsheim</td>
<td>Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
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<tr>
<td>Amy Harley</td>
<td>Associate Professor</td>
<td>PhD, MPH</td>
<td>Ohio State University</td>
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<tr>
<td>Chiang-Ching Spencer Huang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Mustafa Hussein</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>The University of Tennessee</td>
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<tr>
<td>Amy Kalkbrenner</td>
<td>Associate Professor</td>
<td>PhD, MPH</td>
<td>University of North Carolina at Chapel Hill</td>
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<tr>
<td>Lori Klos</td>
<td>Associate Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>Cornell University</td>
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<tr>
<td>Linnea Laestadius</td>
<td>Assistant Professor</td>
<td>PhD, MPP</td>
<td>Johns Hopkins University</td>
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<tr>
<td>Michael Laiosa</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>State University of New York, Upstate Medical University</td>
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<tr>
<td>Hongbo Ma</td>
<td>Assistant Professor</td>
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<td>University of Georgia</td>
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<tr>
<td>Lorraine Halinka Malcoe</td>
<td>Associate Professor</td>
<td>PhD, MPH</td>
<td>University of California at Berkeley</td>
<td></td>
<td></td>
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<tr>
<td>Sandra McLellan</td>
<td>Professor (School of Freshwater Sciences)</td>
<td>PhD</td>
<td>University of Cincinnati Medical Center</td>
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</tr>
<tr>
<td>Susan McRoy</td>
<td>Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of Toronto</td>
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<tr>
<td>Helen Meier</td>
<td>Assistant Professor</td>
<td>PhD, MPH</td>
<td>University of Michigan</td>
<td></td>
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<tr>
<td>Todd Miller</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Maryland</td>
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<tr>
<td>Emmanuel Ngui</td>
<td>Associate Professor</td>
<td>DrPh, MSc</td>
<td>University of North Carolina at Chapel Hill</td>
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<tr>
<td>Aaron Schutz</td>
<td>Professor (School of Education)</td>
<td>PhD, MPP, MA</td>
<td>University of Michigan</td>
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<tr>
<td>Scott Strath</td>
<td>Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Tennessee</td>
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<tr>
<td>Kurt Svoboda</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>S.U.N.Y at Stony Brook</td>
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<tr>
<td>Geoffrey R. Swain</td>
<td>Adjunct Associate Professor</td>
<td>MD, MPH</td>
<td>Medical College of Wisconsin</td>
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<tr>
<td>Ann Swartz</td>
<td>Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Tennessee</td>
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<tr>
<td>Peter Tonellato</td>
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<tr>
<td>Ellen Velie</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California at Berkeley</td>
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<tr>
<td>Renee Walker</td>
<td>Associate Professor</td>
<td>DrPH, MPH</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Yang Wang</td>
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<td>University of Nebraska</td>
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<tr>
<td>Lance Weinhardt</td>
<td>Professor</td>
<td>PhD</td>
<td>Syracuse University</td>
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<tr>
<td>Alice Yan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Maryland</td>
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<tr>
<td>Cheng Zheng</td>
<td>Assistant Professor</td>
<td>PhD, MS</td>
<td>University of Washington</td>
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**Biostatistics, MS**

The Master of Science in Biostatistics program provides an innovative curriculum to meet a range of professional needs and interests. The program trains students in study design, appropriate use of statistical and computational techniques, and interpretation of data analysis results arising from public health and biomedical research. Students learn both classical and modern statistical methods and apply their statistical skills and knowledge to solve "big data" problems. They have the opportunity to

**Contact Information**

Zilber School of Public Health
1240 N. 10th Street
Milwaukee, WI 53205

Phone: (414) 227-3001

http://uwm.edu/publichealth/
work with faculty on cutting edge research projects, such as discovering genetic causes of common diseases, developing statistical algorithms to monitor treatment efficacy, and reducing medical costs through electronic health record.

Please email applyph@uwm.edu to learn more about the MS in Biostatistics degree.

**Admission Requirements**

1. An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.
   a. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in biostatistics.
   b. CV or resume.
   c. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
   d. The admissions committee may consider GMAT (http://uwm.edu/graduateschool/admission/#gmat), LSAT, MCAT scores in place of GRE (http://uwm.edu/graduateschool/admission/#gre) scores. Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.
   e. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
      - Describe how your professional, volunteer, and educational background has led you to seek a Master’s of Science in Biostatistics.
      - How will an MS in Biostatistics help you reach your personal and professional goals?
   f. International applicants must also meet admission standards set and monitored by UWM’s Center for International Education.
   g. All applicants must use SOPHAS (https://sophas.org/) to apply. When applying applicants must select the Master’s of Science in Biostatistics.

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Credits and Courses**

The Master of Science in Biostatistics is a two-year program, preparing graduates to be effective collaborators in many settings, including the biomedical industry, academia, and public service at all levels of national and international government. Students will be trained to lead the design and data analysis of health research studies both in applied and academic settings. Coursework focuses on applied biostatistical methods, statistical consulting, computing, and the intersection of public health and statistical research. Students must complete 39 graduate credits beyond the bachelor’s degree, plus an additional 3 credits dedicated toward thesis writing and research, for a total of 42 credits. Completion of a high-quality master thesis based on original research is a key indicator of the student’s capacity to integrate and apply various biostatistical methods and public health knowledge in real world problems.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
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<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference ¹</td>
<td>3</td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R</td>
<td>3</td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>3</td>
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<tr>
<td>PH 813</td>
<td>Practice of Biostatistical Consulting</td>
<td>3</td>
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<tr>
<td>PH 895</td>
<td>Research and Thesis for MS in Biostatistics</td>
<td>3</td>
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</table>

**Subject Matter S Electives** 6

Choose two:

- PH 714 Statistical Genetics and Genetic Epidemiology
- PH 721 Introduction to Translational Bioinformatics
- PH 722 An Introduction to Bayesian Statistics
- PH 723 Design, Conduct and Analysis of Clinical Trials
- PH 812 Statistical Learning & Data Mining
- PH 818 Statistical Computing
- ED PSY 823 Structural Equation Modeling
- ED PSY 832 Theory of Hierarchical Linear Modeling
- COMPSCI 708 Scientific Computing
- COMPSCI 711 Introduction to Machine Learning

**Public Health & Biology Electives** ² 3

Choose one:

- PH 703 Environmental Health Sciences
- PH 705 Principles of Public Health Policy and Administration
- PH 706 Perspectives on Community & Behavioral Health
- BIO SCI 597 RNA Structure, Function, and Metabolism
- BIO SCI 490 Molecular Genetics

Total Credits 42

¹ Or other elective.
² Other courses may be approved.

**Additional Requirements**

**Applied Research Project**

Near the end of their programs, students will consult with their academic advisor to identify a Biostatistics Track faculty member to be their master’s thesis advisor for the applied independent study project. This
can be their assigned advisor or a different member of the Biostatistics Track Faculty. Advising is by mutual agreement between student and faculty member. The Faculty member then supervises and approves the candidate’s master thesis. Every student must finalize the thesis advisor and prepare a brief thesis research plan no later than the start of the semester in which the student plans to graduate. It is highly recommended that each student speak to the potential thesis advisor and find the project of their interest as early as possible. The thesis research plan should include basic background, outline of specific aims and hypotheses, proposed analysis methods, draft timelines, and expected outcomes. Once the approved thesis research and write-up has been completed, the candidate will submit the work to the thesis advisor for review and approval. The candidate will present his/her thesis in a session that is open to the academic community.

**Time Limit**
The student must complete all degree requirements within 5 years of initial enrollment.

### Environmental Health Sciences, PhD

The program in Environmental Health Sciences offers graduate studies leading to the doctoral degree. Faculty for this program have a diverse expertise in the environmental health sciences spanning a broad range of research domains including developmental toxicology, environmental toxicology and chemistry, and environmental epidemiology. The EHS program through its faculty, offers students an unparalleled opportunity for cross-disciplinary training in pursuit of original and cutting-edge dissertation research projects. In addition, laboratories and equipment are available across campus to help facilitate innovative research endeavors relevant to environmental health science.

When applying for admission, students should describe their interest in the field and any research preferences. Applicants are encouraged to review the research interests of the faculty and contact those faculty who are of interest.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

#### Admission

Applicants must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

- A baccalaureate degree in a science discipline, including at least four laboratory courses and one statistics course.
- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
- Submission of at least three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

For students entering with an advanced degree, credit may be given for relevant coursework at the discretion of the Admissions Committee.

### Reapplication

A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

### Credits and Courses

The PhD in Environmental Health Sciences requires 65 credits beyond the bachelor’s degree. In addition to the PhD Common Core coursework, credits include required concentration coursework (17 credits), electives (at least 12 credits), and the remaining credits taken as research.

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<th>PhD Common Core</th>
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<th>Credits</th>
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<td>PH 801</td>
<td>Seminar in Public Health Research</td>
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<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health or PH 859</td>
<td></td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td></td>
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</table>

#### EHS Concentration Requirements

<table>
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<th>Code</th>
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<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
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<tr>
<td>PH 743</td>
<td>Environmental Risk Assessment</td>
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<td>PH 750</td>
<td>Seminar in Environmental Health Sciences (Subtitled)</td>
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<td>PH 821</td>
<td>Advanced Survey of Environmental Health</td>
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<tr>
<td>PH 822</td>
<td>Molecular &amp; Cellular Basis of Environmental Disease</td>
<td></td>
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<tr>
<td>PH 808</td>
<td>Writing a Federal Grant in the Public Health Sciences</td>
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</table>

#### Electives (see table below) 12 Credits

#### Research 24 Credits

Total Credits 65 Credits

Electives are divided into three categories (molecular, organismal, and population/environment). It is recommended that the student take courses relevant to their research in consultation with the major professor. As the Zilber School’s programmatic offerings grow and diversity, additional PH courses may be approved by the EHS faculty for inclusion as potential elective options.

### Molecular Level Electives

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<td>PH 775</td>
<td>Mechanisms of Infectious Disease</td>
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<tr>
<td>BIO SCI 529</td>
<td>Molecular Biology of Microorganisms</td>
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<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
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<tr>
<td>BIO SCI 564</td>
<td>Endocrinology</td>
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<tr>
<td>CHEM 601</td>
<td>Biochemistry. Protein Structure and Function</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry. Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry. Metabolism</td>
<td>3</td>
</tr>
</tbody>
</table>
The student must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence requirements cannot be met at the master’s level.

**PhD Advisory Committee**

The student, in consultation with the Major Professor, will select four additional members to form a PhD Advisory Committee. A minimum of three committee members must be EHS program faculty. See the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements/) page for more information on the doctoral committee.

**Doctoral Qualifying Exam**

During the end of the second semester of enrollment, the student is required to pass a brief qualifying exam. The duration of this exam is to be no less than 90 minutes. The student will give an oral synopsis/self-evaluation of his/her first year in the program describing highlights from his/her coursework. The academic advisory committee will evaluate if the student has demonstrated a knowledge base in Public Health that was to be firmly established in the first year of coursework. The academic advisory committee in conjunction with the student will also map out the remaining coursework that needs to be completed by the end of the third year in the program. Students failing this important first exam will not be allowed to continue in the program and will forfeit their TAship, PAship, or RAship if applicable.

**Doctoral Preliminary Examination**

This examination must be taken no later than the end of the third year of study. In order to take the preliminary exam, all formal coursework must be completed with a cumulative GPA of 3.0 or higher. The preliminary examination consists of both written and oral components. The oral portion of the examination is broken into two subparts. The (proposal) phase will consist of the student presenting his/her dissertation proposal to the examining committee. In the “General Public Health Knowledge Phase” of the preliminary examination, the student will be evaluated (via oral questioning) by the academic advisory /doctoral advisory committee to determine if the student has truly acquired Public Health competencies which should have been acquired by completion of the formal coursework in the EHS PhD program. A student who fails the doctoral preliminary examination will be dismissed from the program.

**Dissertation**

Doctoral students should be aware that the research component is extremely important and requires significant time allocation. A full-time commitment is required to complete this critical component of the degree. Successful doctoral students in our EHS program should anticipate working long hours, including on weekends, winter intersession and summer months. Students are also expected to enroll in, and successfully complete research credit. Six or more of these research credits must be obtained at the level of dissertator.

All successful doctoral students must prepare and successfully defend a dissertation reporting the results of their research. A full time student who does not pass the dissertation defense within six years of admission may be required to take another preliminary examination and be readmitted to the program.

**Time Limit**

The student must complete all requirements for the degree within 10 years of the date of initial enrollment in the program.

---

**Population Level Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 741</td>
<td>Environmental Public Health Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 662</td>
<td>Public Sector Influence on Real Estate Development</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 771</td>
<td>Transportation Policy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 880</td>
<td>Urban Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 945</td>
<td>The Internal Structure of the City</td>
<td>3</td>
</tr>
</tbody>
</table>
Epidemiology, PhD

The PhD program in epidemiology prepares graduates for many career paths, including academia, non-governmental organizations, and public service at all levels of local, national, and international government.

Through rigorous theoretical and methodological training, students learn to conduct independent research that examines the distribution and determinants of health, and to translate their findings to public health policy and strategies to promote population health. The program encourages applicants from diverse backgrounds, with a clearly communicated interest in epidemiology and in promoting health equity.

This program also meets requirements outlined by the national Council on Education for Public Health (CEPH).

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Applicants must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores from the Graduate Record Examination (GRE), taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.
2. Three letters of recommendation are required. At least one letter must be from a university faculty member.

Recommended:

- Applicants should have an earned bachelor's degree in any field with a cumulative undergraduate GPA of 3.0 or higher.
- A completed Master's degree in Epidemiology, public health or the social sciences is encouraged, but not required.
- At least one undergraduate mathematics or statistics course and one biological sciences course with a 3.0 is preferred.

Reapplication

A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Credits and Courses

The curriculum consists of 75 credits to degree completion beyond the bachelor's degree – 66 credits of didactic coursework and 9 credits toward dissertation writing and research. Students will take 24 credits of coursework to introduce them to the principles of Epidemiology, Biostatistics, public health policy and community engagement. They will take 6 credits of ‘selective coursework in subject matter areas, 6 credits of coursework in more advanced analytic methods, and 3 credits of an elective in an area that aligns with their research interests. They will also take 9 credits of advanced coursework in both theoretical and applied epidemiology, in addition to 6 credits in more advanced policy analysis and translation of epidemiologic findings to policy-interventions. Additionally, students will take 12 credits of PhD-level coursework in research ethics, community-engagement, and a seminar in current issues in epidemiology. Students may apply previous graduate course work towards didactic credits, contingent on assessment of course equivalencies, in accordance with UW-Milwaukee policies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 700</td>
<td>Structures of Inequality and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td>PH 761</td>
<td>Epidemiology Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>PH 763</td>
<td>Epidemiology for Equity</td>
<td>3</td>
</tr>
<tr>
<td>PH 779</td>
<td>Public Health Policymaking and Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 804</td>
<td>Advanced Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 823</td>
<td>Applied Analysis of Binary Outcomes in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 864</td>
<td>Research Ethics in Epidemiology and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 870</td>
<td>Epidemiology in Health Policy and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>PH 904</td>
<td>Survey of Analytic Methods for Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 960</td>
<td>Core Doctoral Seminar in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
<td>9</td>
</tr>
</tbody>
</table>

Required Epidemiology Subject Matter "S" Elective

Select two courses from the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 768</td>
<td>Cancer Epidemiology</td>
</tr>
<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System</td>
</tr>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
</tr>
<tr>
<td>PH 868</td>
<td>Epidemiologic Links Between Infectious and Chronic Disease</td>
</tr>
<tr>
<td>PH 865</td>
<td>Critical Methodologies for Health Equity Research</td>
</tr>
</tbody>
</table>

Analytic Methods Electives

Select two courses from the following; other classes as approved: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
</tr>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R</td>
</tr>
</tbody>
</table>
Preliminary Examination Committee will select the research articles and create the exam. The questions will assess several PhD program competencies and will require students to integrate content related to 1) epidemiologic concepts and methods, 2) data analysis methods and applications to epidemiologic research, 3) applications of theory, social and environmental justice, health equity, and community engagement to epidemiologic research, and 4) policy implications of epidemiologic research. The examining committee will grade the exam and assign either a pass, conditional pass, or fail. For a conditional pass, the examining committee will determine options for remediation including but not limited to an oral presentation or re-write of certain questions. At the discretion of the examining committee, a student who fails the preliminary exam may be allowed one additional attempt with all or part of the examination.

Dissertation Proposal
The student, in consultation with the Major Professor, will select members to form a PhD Advisory Committee. See the Zilber School of Public Health Graduate Student Handbook and the Graduate School Doctoral Requirements page for more information on the doctoral committee. The dissertation research plan should include an abstract, background, outline of specific aims and hypotheses, (articulated as three distinct but related research questions), preliminary findings (if applicable), research methods proposed, public health significance of the proposed research and references. The composition of the dissertation committee must be in compliance with the rules and regulations of the Graduate School. The candidate then submits a written dissertation plan to be reviewed and formally approved by the dissertation advisory committee. The research plan must clearly outline the student’s obligation for completing an original piece of work of sufficient quality, as determined by the committee. The review and approval process for the dissertation research plan will include a formal presentation to the committee.

Dissertation Defense
Upon approval of the dissertation proposal, students will proceed with an original and significant research investigation under the supervision of their major professor, culminating in a written dissertation. The dissertation must, as the final step toward the degree, pass an oral examination in defense of the dissertation. The dissertation defense will be publicly announced and open to the academic community. Once the defense is completed, students will be encouraged to revise their dissertation and submit it for publication.

Once the committee has formally approved the dissertation document and the oral defense, and the Chair of the appropriate program has certified completion of all requirements, the candidate is awarded the Ph.D. in Public Health.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

Interprofessional Public and Population Health, Graduate Certificate (Zilber School of Public Health)

The Interprofessional Public and Population Health Graduate Certificate is designed for students and working professionals involved in program
planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences, College of Nursing, and the Zilber School of Public Health, and is coordinated through the Zilber School of Public Health with administrative support from the College of Nursing.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Application**

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/+).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

### Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (all are 3 credits unless noted):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 701</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

### Additional Requirements

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

### Public Health, BS

Do you want to be a force for change to improve community health for all? Are you interested in many disciplines, from biology and
environmental sciences, to history and ethics, to social sciences and public policy? Then Public Health may be the major for you!

The BS in Public Health is an exciting new interdisciplinary program in the Zilber School (https://uwm.edu/publichealth/). The program provides students with transferable knowledge, skills, and experiences – both in the classroom and in communities. Students learn to effectively, ethically, and creatively diagnose, analyze, and solve a range of public health problems across diverse social and cultural contexts. This new undergraduate degree program in public health gives students access to one of the nation’s top universities for research and community engagement, and to Wisconsin’s only accredited school dedicated to public health.

Job prospects for public health graduates are excellent. Trained public health professionals are essential to ensuring the health of communities and societies. In Wisconsin and nationally there is a shortage of skilled public health workers, and this shortage is projected to increase over time due to an aging public health workforce. Graduates will be equipped to enter public health and related careers in a wide variety of settings, including healthcare organizations, for-profit organizations, government agencies, non-profits, and academic institutions.

Our 120 credit program includes 39 credits of general education foundations coursework, 54 credits of Public Health major requirements, and 27 elective credits tailored to each student’s interests and career goals. The elective credits give all students the flexibility to combine their BS in Public Health degree with specialization in one of UW-Milwaukee’s many certificates (http://catalog.uwm.edu/programs/#filter=filter_46) or minors (http://catalog.uwm.edu/programs/#filter=filter_46) of their choice.

Please email applyph@uwm.edu to learn more about the BS in Public Health degree.

For admissions information, see the Undergraduate Admission (https://catalog.uwm.edu/admission-costs/undergraduate-admission/#text) section of this catalog.

Requirements

Students must earn a minimum of 120 credits to complete the BS in Public Health degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements (GER)</td>
<td>0-20</td>
<td></td>
</tr>
<tr>
<td>Foundations</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Public Health Major Requirements</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>Electives, including certificate or minor</td>
<td>27-33</td>
<td></td>
</tr>
<tr>
<td>Minimum credits to degree</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

Most of the University General Education Requirements (p. 29) are more than satisfied through the foundations coursework and the public health major requirements. All students should work with their public health advisor to ensure they meet all GER.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Competency Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication (OWC) Part A</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication (OWC) Part B (satisfied through foundations coursework)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy (QL) Part A (Math 105 or Math 108 recommended) 0-3
Quantitative Literacy (QL) Part B (satisfied through major coursework) 3
Foreign Language 0-8

Distribution Requirements (satisfied through foundations and major coursework)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts (GER-A)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities (GER-HU)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (GER-NS and GER-NS+)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences (GER-SS)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity (GER-CD)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Most new freshmen are required to take placement exams in English and mathematics. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count towards the BS in Public Health degree. Entering students are urged to take their placement exams when scheduled.

Foundations

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions</td>
<td></td>
</tr>
<tr>
<td>ART 100</td>
<td>American Art and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Multicultural America 1,2</td>
<td></td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (prereq soph st)</td>
<td></td>
</tr>
<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
<td></td>
</tr>
<tr>
<td>FILM 150</td>
<td>Multicultural America 1,2</td>
<td></td>
</tr>
<tr>
<td>THEATRE 150</td>
<td>Multicultural America 1,2</td>
<td></td>
</tr>
<tr>
<td>Other GER-A course approved by Zilber School academic advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 101</td>
<td>The Making of American Cultures: Africans, Europeans, and Indian Nations</td>
<td></td>
</tr>
<tr>
<td>ETHNIC 275</td>
<td>Queer Migrations</td>
<td></td>
</tr>
<tr>
<td>HIST 150</td>
<td>Multicultural America 1,2</td>
<td></td>
</tr>
<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States 3</td>
<td></td>
</tr>
</tbody>
</table>
LGBT 200  Introduction to Lesbian, Gay, Bisexual, and Transgender Studies
WGS 150  Multicultural America 1, 2
WGS 201  Introduction to Women’s and Gender Studies: A Humanities Perspective

**Any other 3 credit course that meets both GER-HU and GER-CD**

**Other humanities course approved by Zilber School academic advisor**

**Historical Perspectives (satisfy GER-HU, GER-SS, and/or GER-CD)**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRIC 112</td>
<td>Introduction to African-American History, 1865 to the Present (HU, CD)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (SS, CD)</td>
<td></td>
</tr>
<tr>
<td>AIS 262</td>
<td>North American Indian History to 1887 (SS, CD)</td>
<td></td>
</tr>
<tr>
<td>AIS 263</td>
<td>North American Indian History Since 1887 (SS, CD)</td>
<td></td>
</tr>
<tr>
<td>HIST 132</td>
<td>World History Since 1500 (HU)</td>
<td></td>
</tr>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877 (SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present (SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600 (HU)</td>
<td></td>
</tr>
<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States (HU, CD) 1, 3</td>
<td></td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries (HU)</td>
<td></td>
</tr>
<tr>
<td>HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life (SS, CD)</td>
<td></td>
</tr>
</tbody>
</table>

**Other history course approved by Zilber School academic advisor**

**Ethics**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILO 241</td>
<td>Introductory Ethics (HU)</td>
<td></td>
</tr>
<tr>
<td>PHILO 243</td>
<td>Moral Problems: (HU - Must take 3 topics; topics include Abortion, Bioethics, Contemporary Problems, Drugs and Addiction, Euthanasia, Immigration and Citizenship) 4</td>
<td></td>
</tr>
<tr>
<td>PHILO 244</td>
<td>Ethical Issues in Health Care: (HU)</td>
<td></td>
</tr>
<tr>
<td>PHILO 337</td>
<td>Environmental Ethics (prereq jr st)</td>
<td></td>
</tr>
</tbody>
</table>

**Other ethics course approved by Zilber School academic advisor**

**Natural Science**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 102</td>
<td>Elements of Biology (satisfies GER-NS with lab)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other biology course approved by Zilber School academic advisor**

**Political Science (all courses listed satisfy GER-SS)**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 175</td>
<td>Introduction to International Relations</td>
<td></td>
</tr>
<tr>
<td>POL SCI 210</td>
<td>American Public Policy 1</td>
<td></td>
</tr>
</tbody>
</table>

**Other political science course approved by Zilber School academic advisor**

**Behavioral Science (all courses listed satisfy GER-SS)**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle (prereq soph st)</td>
<td></td>
</tr>
<tr>
<td>PH 306</td>
<td>Adolescent Health &amp; Development (see prereqs)</td>
<td></td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 104</td>
<td>Introduction to Social Psychology</td>
<td></td>
</tr>
</tbody>
</table>

**Other behavioral science course approved by Zilber School academic advisor**

**Social Inequality (all courses satisfy GER-SS; some also satisfy GER-CD)**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 101</td>
<td>Introduction to American Indian Studies (SS, CD)</td>
<td></td>
</tr>
<tr>
<td>GEOG 114</td>
<td>Geography of Race in the United States (SS, CD)</td>
<td></td>
</tr>
<tr>
<td>LATINO 101</td>
<td>Introduction to Latino Studies (SS, CD)</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 224</td>
<td>Race and Ethnicity in the United States (SS, CD; prereq soph st)</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 233</td>
<td>Social Inequality in the United States (SS; prereq soph st)</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 250</td>
<td>Sex and Gender (SS; prereq soph st)</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 255</td>
<td>Sociology of Sexuality (SS; prereq soph st)</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 141</td>
<td>Urban Planning Solutions to Contemporary Urban Problems (SS)</td>
<td></td>
</tr>
<tr>
<td>URB STD 150</td>
<td>Multicultural America (SS, CD) 1, 2</td>
<td></td>
</tr>
<tr>
<td>WGS 200</td>
<td>Introduction to Women’s and Gender Studies: A Social Science Perspective (SS)</td>
<td></td>
</tr>
</tbody>
</table>

**Other social inequality course approved by Zilber School academic advisor**

**Total Credits:** 33

1  Recommended selection.
2  Has service learning component.
3  HIST 229 may only count for one Foundations category.
4  1 credit course; must take three separate topics for 3 credits total.

### Public Health Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>PH 142</td>
<td>Exploring Global Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 201</td>
<td>Public Health from Cells to Society I</td>
<td>3</td>
</tr>
<tr>
<td>PH 202</td>
<td>Public Health from Cells to Society II</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice (QLB) 5</td>
<td>3</td>
</tr>
<tr>
<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 302</td>
<td>Health and Disease: Concepts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>PH 303</td>
<td>Climate Change, the Environment and Human Health (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td>PH 319</td>
<td>Introduction to Health Disparities</td>
<td>3</td>
</tr>
</tbody>
</table>
Courses required for the BS in Public Health degree may be repeated only once. Students who twice earn a grade lower than these requirements will be dismissed from the public health major.

Students who are struggling in their courses for any reason are encouraged to access retention services available in the Zilber School of Public Health.

**Electives**

With the help of their academic advisor, students will select electives to complete the 120 total credits required for the degree. Electives are tailored to each student’s interests and career goals. Students may choose a related area of specialization outside of the Zilber School by completing any minor ([http://catalog.uwm.edu/programs/#filter=filter_46](http://catalog.uwm.edu/programs/#filter=filter_46)) or interdisciplinary certificate ([http://catalog.uwm.edu/programs/#filter=filter_26&filter_19](http://catalog.uwm.edu/programs/#filter=filter_26&filter_19)) offered by UWM, typically comprised of 18-22 credits. In some cases, students may choose to study two related areas, or they may complement a certificate or minor with other courses of interest.

**Certificates or Minors**

Certificates of potential interest to public health students include, but are not limited to: Community Arts, Community Engagement Strategies, Community Leadership, Comparative Ethnic Studies, Cultures and Communities, Food Studies, Global Health, Healthy Aging, Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Quantitative Social Data Analysis, Spanish for Health Professionals, Urban Planning, and Urban Studies.

Minors of potential interest to public health students include, but are not limited to: Community Engagement, Geographic Information Science, Geography, Global Studies, Health Care Administration, International Studies, Mathematics (Statistics), Nutritional Sciences, and Women’s and Gender Studies.

**Degree and Graduation Requirements**

A minimum of 120 semester credits is required to complete the BS in Public Health degree. A cumulative GPA of 2.25 or greater, including transferable credits and all credits earned at UWM, is required for graduation. Students must also maintain an average GPA of 2.5 in all public health major courses required for graduation (54 credits total).

If, during the program, a student falls below these minimum GPA requirements, the student will be placed on academic probation. A student who remains on probation for more than two consecutive semesters will be dismissed from the major.

Students who earn a D+ or lower in any public health major course required for graduation (54 credits) must repeat the course and earn at least a C. Courses required for the BS in Public Health degree may be

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 327</td>
<td>Foundations for Action in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 346</td>
<td>Environmental Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td>PH 355</td>
<td>Public Health Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>PH 408</td>
<td>Comparative Health Systems: A Social Determinants Approach</td>
<td>3</td>
</tr>
<tr>
<td>PH 410</td>
<td>True Lies: Consuming and Communicating Quantitative Information</td>
<td>3</td>
</tr>
<tr>
<td>PH 427</td>
<td>Strategies for Action in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 428</td>
<td>Program Implementation &amp; Evaluation for a Healthy Society</td>
<td>3</td>
</tr>
<tr>
<td>PH 455</td>
<td>Public Health Research Methods II</td>
<td>3</td>
</tr>
<tr>
<td>PH 600</td>
<td>Public Health Integrative Experience (Service Learning)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 54

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5 Select QLB course substitutions allowed - please see your public health academic advisor.

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### Year 1

#### Semester 1

| PH 101 | Introduction to Public Health | 3 |
| Select one of the following: |
| MATH 105 | Introduction to College Algebra (QLA) | 3 |
| MATH 108 | Algebraic Literacy II (QLA) | 3 |
| ENGLISH 102 | College Writing and Research | 3 |
| ART 150 | Multicultural America (ART/CD; C&C Area 1) | 3 |
| BIO SCI 102 | Elements of Biology (NS+) | 3 |

Credits: 15

#### Semester 2

| PH 142 | Exploring Global Environmental Health | 3 |
| COMMUN 103 | Public Speaking (HU) | 3 |
| ENGLISH 201 | Strategies for Academic Writing | 3 |
| Political Science Foundations (SS) | 3 |
| Historical Foundations | 3 |

Credits: 15

### Year 2

#### Semester 3

| PH 201 | Public Health from Cells to Society I | 3 |
| KIN 270 | Statistics in the Health Professions: Theory and Practice (QLB) | 3 |
| Behavioral Sciences Foundations (SS) | 3 |
| Humanities Foundations (HU/CD; C&C AREA 2) | 3 |
| Select one of the following: |
| ENGLISH 207 | Health Science Writing (OWCB) | 3 |
| ENGLISH 214 | Writing in the Professions: | 3 |

Credits: 15

#### Semester 4

| PH 202 | Public Health from Cells to Society II | 3 |
| HCA 307 | Epidemiology for the Health Sciences | 3 |
| Social Inequality Foundations (SS; can meet C&C Area 2) | 3 |
| Global Perspectives on Cultures and Communities Electives (C&C Area 3) | 3 |
| PHILOS 244 | Ethical Issues in Health Care: (Ethics Foundations; HU, C&C Area 5) | 3 |

Credits: 15

### Year 3

#### Semester 5

| PH 302 | Health and Disease: Concepts and Contexts | 3 |
| PH 303 | Climate Change, the Environment and Human Health | 3 |
| PH 327 | Foundations for Action in Public Health | 3 |
| PH 355 | Public Health Research Methods I | 3 |
| Elective (Certificate/Minor) | 3 |

Credits: 15

#### Semester 6

| PH 319 | Introduction to Health Disparities | 3 |
| PH 346 | Environmental Health and Disease | 3 |
| PH 427 | Strategies for Action in Public Health | 3 |
| PH 455 | Public Health Research Methods II | 3 |
| Art, Culture and Community Elective (C&C Area 4) | 3 |

Credits: 15

### Year 4

#### Semester 7

| PH 408 | Comparative Health Systems: A Social Determinants Approach | 3 |

---
**Core Competencies**

The B.S. in Public Health program has 15 core competencies designed to meet Council on Education for Public Health (CEPH) accreditation requirements. Graduates of the BS in Public Health program will be able to:

1. Explain the importance of respect for diverse values, beliefs, cultures, and the dignity of individuals and communities in public health practice;
2. Explain the history and philosophy of public health, including its core values, theories, concepts, and functions in society;
3. Collect and analyze public health data using fundamental quantitative and qualitative methods and instruments;
4. Locate and evaluate primary scientific literature and other information sources (e.g., media) to inform evidence-based public health approaches;
5. Outline evidence-based approaches—using data, assessment, and evaluation—to address public health problems;
6. Explain why and how public health professionals should ethically engage in interactions with study/program participants, community (partners and stakeholders), and others to address population health and health equity;
7. Develop advocacy strategies for multi-level social policies and interventions to promote population health;
8. Assess the advantages and disadvantages of health promotion interventions for specific populations;
9. Discuss ethical social, ecological, political, and community approaches to public health dilemmas;
10. Explain the natural history of human health and disease, their biological and environmental origins, distribution among populations, and strategies for their prevention, management, and control;
11. Explain the interrelationship between hazards in the natural and built environment, and human and population health;
12. Explain multilevel and ecosocial pathways through which social, economic, legal, and political structures and systems affect population health and health inequities across the life course;
13. Interpret environmental, regulatory, legal, and economic structures, as well as their interactions, within communities and health systems from the perspective of social justice and human rights;
14. Apply fundamental concepts and features of public health interventions and programs, including their planning, implementation, assessment, and evaluation; and
15. Communicate public health evidence and concepts to diverse audiences using a variety of modalities and media.

**Admission to the School of Public Health**

Students who meet the standard University admission requirements are admissible to the School of Public Health. For undergraduate admission requirements, see the Admission (p. 15) section of this catalog.

**Accelerated Program Option**

This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

**Honors in the Zilber School of Public Health**

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Public Health, MPH/Social Work, MSW**

The Zilber School of Public Health and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical, research-based policy and practice knowledge and accompanying skill sets, to address health inequities and inequalities and respond to the health and well-being needs of communities at the local, regional, national and international arenas.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
Students are admitted to each graduate program separately and based on admission requirements which are consistent with those specified by the UWM Graduate School, the MPH program in the Zilber School of Public Health, and the MSW program of the Department of Social Work.

Credits and Courses
Students accepted into this MPH/MSW program complete the following courses:

Master of Public Health (MPH)
Required Common Core Courses (24 Credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 708</td>
<td>Health Systems and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 790</td>
<td>Field Experience in Public Health (4 cr)</td>
<td>4</td>
</tr>
<tr>
<td>PH 800</td>
<td>Capstone in Public Health (2 cr)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 24

Students specialize in one of five tracks of study:
- Biostatistics *
- Community and Behavioral Health Promotion
- Environmental Health Sciences
- Epidemiology *
- Public Health Policy and Administration *

* These tracks are currently not available in the Coordinated MPH/MSW

Biostatistics Track (22 credits)
In addition to the common MPH core classes, students complete:

Required Courses (13 Credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 710</td>
<td>Seminar in Biostatistics and Bioinformatics (1 cr)</td>
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</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td></td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
<td></td>
</tr>
<tr>
<td>PH 713</td>
<td>Analyzing Observational and Experimental Data</td>
<td></td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R</td>
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</tbody>
</table>

*S*electives – Choose three (9 credits minimum)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 707</td>
<td>Introduction to Statistical Computing</td>
<td></td>
</tr>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td></td>
</tr>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td></td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 22

Community and Behavioral Health Promotion Track (24 credits)
In addition to the common MPH core classes, students complete:

Required Courses (15 Credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
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</tr>
<tr>
<td>PH 725</td>
<td>Theories and Models of Health Behavior</td>
<td></td>
</tr>
<tr>
<td>PH 726</td>
<td>Community Health Assessment</td>
<td></td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
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</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
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</table>

Methods "S"electives- choose two (6 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>PH 831</td>
<td>Community Engagement and Participatory Research Approaches in Public Health</td>
<td></td>
</tr>
</tbody>
</table>

Electives (3 credits)

Total Credits 24

Environmental Health Sciences Track (23 Credits)
In addition to the common MPH core classes, students complete:

Required Courses (11 Credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td></td>
</tr>
<tr>
<td>PH 743</td>
<td>Environmental Risk Assessment</td>
<td></td>
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<tr>
<td>PH 750</td>
<td>Seminar in Environmental Health Sciences (1 credit x 2)</td>
<td></td>
</tr>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td></td>
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</table>

Built Environment "S" elective – Choose one (3 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 790</td>
<td>Special Topics:</td>
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<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 880</td>
<td>Urban Sustainability</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 880</td>
<td>Urban Sustainability</td>
<td></td>
</tr>
<tr>
<td>GEOG 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

Chemical Environment "S" elective- Choose one (3 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 741</td>
<td>Environmental Public Health Microbiology</td>
<td></td>
</tr>
<tr>
<td>PH 744</td>
<td>Environmental Toxicology</td>
<td></td>
</tr>
<tr>
<td>PH 745</td>
<td>Developmental Toxicology</td>
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</tbody>
</table>

Biological Environment "S" elective- Choose one (3 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 741</td>
<td>Environmental Public Health Microbiology</td>
<td></td>
</tr>
<tr>
<td>PH 744</td>
<td>Environmental Toxicology</td>
<td></td>
</tr>
<tr>
<td>PH 745</td>
<td>Developmental Toxicology</td>
<td></td>
</tr>
</tbody>
</table>
### Environmental Public Health
- PH 741: Environmental Public Health Microbiology
- PH 745: Developmental Toxicology
- PH 775: Mechanisms of Infectious Disease

**Elective – Choose one additional course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 23

### Epidemiology Track (24 credits)
In addition to the common MPH core classes, students complete:

**Required Courses**
- PH 700: Structures of Inequality and Population Health
- PH 758: Social Epidemiology
- PH 759: Intro to Regression for Understanding the SDOH
- PH 761: Epidemiology Field Methods
- PH 763: Epidemiology for Equity

**S“electives – Choose one**
- PH 762: Environmental Epidemiology
- PH 768: Cancer Epidemiology
- PH 769: Critical Perspectives on Nutritional Epidemiology and the Food System

**Other classes as approved by advisor**

**Total Credits**: 24

### Public Health Policy and Administration Track (24 credits)
In addition to the common MPH core classes, students complete:

**Required Courses**
- PH 700: Structures of Inequality and Population Health
- PH 776: Qualitative Approaches in Public Health Policy and Administration
- PH 777: Quantitative Research Methods for PH Policy & Administration
- PH 781: Public Health Administration
- PH 785: Principles of Public Health Economics

**Content Elective- choose at least one**
- PH 708: Health Systems and Population Health
- PH 774: Violence and Health
- PH 784: Social and Economic Policy as Health Policy
- PH 769: Critical Perspectives on Nutritional Epidemiology and the Food System
- PH 820: Maternal and Child Health Foundations, Policy and Practice

**Methods and Practice Elective- Choose at least one**
- PH 726: Community Health Assessment
- PH 727: Program Planning & Implementation in Public Health
- PH 728: Program Evaluation in Public Health

**Other classes as approved by advisor**

**Total Credits**: 24

### Master of Social Work (MSW)

#### Foundation Curriculum
- SOC WRK 604: Social Systems and Social Work Practice
- SOC WRK 662: Methods of Social Welfare Research
- SOC WRK 665: Cultural Diversity and Social Work
- SOC WRK 705: Individual Behavior and Social Welfare
- SOC WRK 708: Social Work Methods I: Individuals and Families
- SOC WRK 709: Social Work Methods II: Groups, Organizations and Communities
- SOC WRK 721: Field Instruction I

#### Advanced Practice Curriculum

**Practice courses (711 or 713; 811 or 915; 820)**
- SOC WRK 711: Direct Social Work Practice I
- SOC WRK 713: Community Organization, Planning and Human Service Administration I
- SOC WRK 811: Direct Social Work Practice II:
- SOC WRK 915: Human Services Administration II
- SOC WRK 820: Seminar in Social Work Practice:

**Field Courses**
- SOC WRK 722: Field Instruction II
- SOC WRK 821: Field Instruction III
- SOC WRK 822: Field Instruction IV

**Human Behavior Content (Choose one)**
- SOC WRK 753: Adult Psychopathology
- SOC WRK 771: Development of the Family Over the Life Span
- SOC WRK 685: Social Gerontology

**Total MPH Degree Credits Required: 46-48 Credit Hours**

**Comprehensive Examination**
- Not Required
Public Health, MPH: Biostatistics

The Biostatistics track builds on the classic Public Health Biostatistics skill and knowledge base and takes advantage of special knowledge of its faculty in the areas of genetics, bioinformatics, network analysis, causal inference, and big data science. Students have the opportunity to learn and apply statistical genetics in the context of complex disease study, high throughput computing used in "big" data science, applications in evidence-based patient-centered outcome studies, and population-based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine based epidemiological studies.

**Additional Requirements**

### Faculty Advisor

All students will be assigned a faculty member to advise and supervise their studies as specified in Graduate School regulations. Students should develop, in consultation with the advisor, a written plan of study, including selection of the specialized concentration. Students may elect to change advisor contingent upon the new advisor's appropriateness to the area of specialized concentration, the advisor's acceptance of additional advisees, and formal notification to the MSW specialist in the MSW program.

### Thesis

Not Required.

### Comprehensive Examination

Not Applicable.

### Time Limit

Students in the coordinated MPH/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

**Public Health, MPH: Biostatistics**

The Biostatistics track builds on the classic Public Health Biostatistics skill and knowledge base and takes advantage of special knowledge of its faculty in the areas of genetics, bioinformatics, network analysis, causal inference, and big data science. Students have the opportunity to learn and apply statistical genetics in the context of complex disease study, high throughput computing used in "big" data science, applications in evidence-based patient-centered outcome studies, and population-based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine in the context of public health; basic understanding of genetics and epigenetics; general "omic" approaches and concepts; as well as classic Biostatistics topics such as Survival and Categorical data analysis.

**Related Certificate**

- Interprofessional Graduate Certificate in Public and Population Health (http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/)

The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

**Master of Public Health**

The Master of Public Health offered by the Zilber SPH is a professional master's degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

**Admission Requirements**

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

### Admission

An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
4. The admissions committee may consider GMAT (http://uwm.edu/graduateschool/admission/#gmat), LSAT, MCAT scores in place of GRE (http://uwm.edu/graduateschool/admission/#gre) scores. Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.
5. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
   • Describe how your professional, volunteer, and educational background has led you to seek a degree in Public Health.
   • How will your desired track of study help you reach your personal and professional goals in Public Health?

6. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.

7. MPH applicants must use SOPHAS (https://sophas.org/) to apply. When applying applicants must select their track of which they are applying, Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy & Administration.

8. Tracks may have additional admission requirements, which can be found here (http://uwm.edu/publichealth/faqs/).

**Credits and Courses**

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24-25 credit hours, including at least a four-credit Field Experience and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of five specialization tracks: Biostatistics (48 credits), Community and Behavioral Health Promotion (48-49 credits), Environmental Health Sciences (47 credits), Epidemiology (49 credits), or Public Health Policy and Administration (48 credits). Students must maintain a cumulative GPA of 3.0 or better in order to progress through the program.

Unless noted, all courses are 3 credits.

**MPH Required Common Core Courses (24-25 credits)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 708</td>
<td>Health Systems and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 733</td>
<td>Overview of Qualitative Methods for Public Health 1</td>
<td>1</td>
</tr>
<tr>
<td>PH 790</td>
<td>Field Experience in Public Health (See following section for details)</td>
<td>3</td>
</tr>
<tr>
<td>PH 791</td>
<td>Leadership in Public Health</td>
<td>1</td>
</tr>
<tr>
<td>PH 800</td>
<td>Capstone in Public Health (See following section for details)</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Required for students in the Biostatistics, Environmental Health Sciences and Epidemiology Tracks. Community and Behavioral Health Promotion Track students who take a qualitative methods course and Public Health Policy and Administration Track students would be exempt.

2 Satisfactory/Unsatisfactory; may be taken for 1, 2, or 3 credits in a given semester. A total of 3 credits is required.

3 Completed in the final semester of study.

**Field Experience**

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and school staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. The experience is a mentored placement engaging both a Faculty Advisor and a Site Preceptor. Students complete at least two products as agreed upon with the Site Preceptor.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

Two Foundational Competencies are required of all students:

- **16.** Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- **19.** Communicate audience-appropriate public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

The fourth credit is designed to give students the opportunity to apply three specific Foundational Competencies related to the Field Experience. The required competencies are:

- **CEPH 16.** Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- **CEPH 17.** Apply negotiation and mediation skills to address organizational or community challenges.
- **CEPH 21.** Perform effectively on interprofessional teams. Students from at least two professions constitute an interprofessional team.

Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies will include participation in the sessions and written papers.

All four credits may be taken in one semester or spread out over two semesters.

**Capstone**

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student’s interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in
addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

### Biostatistics Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R</td>
<td>3</td>
</tr>
</tbody>
</table>

**“S” Electives**

Select a minimum of 12 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 707</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 713</td>
<td>Analyzing Observational and Experimental Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 720</td>
<td>Special Topics in Biostatistics: Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>PH 723</td>
<td>Design, Conduct and Analysis of Clinical Trials</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 21

### Additional Requirements

**Faculty Advisor**

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

UWM’s Zilber School recognizes the importance of a strong faculty advising program coupled with a sound system for monitoring student progress in all programs. Each semester, students are asked to assess their own progress through a required survey. They also complete a progress form together with their advisor. Feedback to students will be provided by their faculty advisor in December during their advisor-student meeting.

Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH’s Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.

**Thesis**

Not required. See capstone for similar culminating experience.

**Comprehensive Examination**

Not required. See capstone for similar culminating experience.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

### Public Health, MPH: Community and Behavioral Health Promotion

The Community and Behavioral Health Promotion (CBHP) track focuses on promoting the health of communities through innovative approaches to community engagement and collaborative practice. Coursework addresses theories and frameworks in social and behavioral science, evidence-based methods for program planning (including assessment) and implementation, and program evaluation. Students apply a social justice and equity-centered approach to public health training and practice. Methodological approaches address quantitative, qualitative, and community-engaged techniques.

### Related Certificate

- • Interprofessional Graduate Certificate in Public and Population Health (http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/)

The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

### Master of Public Health

The Master of Public Health offered by the Zilber SPH is a professional master’s degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH’s program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

### Admission Requirements

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).
Admission
An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
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5. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
   - Describe how your professional, volunteer, and educational background has led you to seek a degree in Public Health.
   - How will your desired track of study help you reach your personal and professional goals in Public Health?
6. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
7. MPH applicants must use SOPHAS (https://sophas.org/) to apply. When applying applicants must select their track of which they are applying: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy & Administration.
8. Tracks may have additional admission requirements, which can be found here (http://uwm.edu/publichealth/faqs/).

Credits and Courses
All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24-25 credit hours, including at least a four-credit Field Experience and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of five specialization tracks: Biostatistics (48 credits), Community and Behavioral Health Promotion (48-49 credits), Environmental Health Sciences (47 credits), Epidemiology (49 credits), or Public Health Policy & Administration (48 credits). Students must maintain a cumulative GPA of 3.0 or better in order to progress through the program.

Unless noted, all courses are 3 credits.

MPH Required Common Core Courses (24-25 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Field Experience
The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and school staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. The experience is a mentored placement engaging both a Faculty Advisor and a Site Preceptor. Students complete at least two products as agreed upon with the Site Preceptor.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

Two Foundational Competencies are required of all students:

- 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- 19. Communicate audience-appropriate public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

The fourth credit is designed to give students the opportunity to apply three specific Foundational Competencies related to the Field Experience. The required competencies are:

- CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- CEPH 17. Apply negotiation and mediation skills to address organizational or community challenges.
Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies will include participation in the sessions and written papers.

All four credits may be taken in one semester or spread out over two semesters.

**Capstone**
The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

**Community and Behavioral Health Promotion**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PH 725</td>
<td>Theories and Models of Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PH 726</td>
<td>Community Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Methods "S"Electives**
Select a minimum of 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 831</td>
<td>Community Engagement and Participatory Research Approaches in Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH 719</td>
<td>Social Justice in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 740</td>
<td>Special Topics in Public Health:</td>
<td></td>
</tr>
<tr>
<td>PH 752</td>
<td>Public Health and Mental Health</td>
<td></td>
</tr>
<tr>
<td>PH 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>KIN 732</td>
<td>Physical Activity and Health Across the Lifespan</td>
<td></td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

**Total Credits** 24

**Additional Requirements**

**Faculty Advisor**
Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

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Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH's Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.

**Thesis**
Not required. See capstone for similar culminating experience.

**Comprehensive Examination**
Not required. See capstone for similar culminating experience.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Accelerated Program Option**
This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).

**Public Health, MPH: Environmental Health Sciences**

Environmental Health Sciences MPH students learn the biological, chemical, and structural components of public health and how to put current research into practice. Students' experiences incorporate environmental health theories with cross-cutting public health competencies such as communication, public health biology, systems-thinking and leadership.

Faculty for this program are drawn from a number of departments and research units at UWM, affording the student an unparalleled opportunity for cross-disciplinary training and the performance of novel research projects. Laboratories and equipment are available across campus to promote innovative concepts in issues of Environmental Health Sciences.

**Related Certificate**
- Interprofessional Graduate Certificate in Public and Population Health (http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/)

The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.
Master of Public Health

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Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

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Credits and Courses

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Two Foundational Competencies are required of all students:

- 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- 19. Communicate audience-appropriate public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

The fourth credit is designed to give students the opportunity to apply three specific Foundational Competencies related to the Field Experience. The required competencies are:

- CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
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Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies will include participation in the sessions and written papers.

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**Capstone**

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone project. The proposal will contain an agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

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**Environmental Health Sciences Concentration**

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<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>10</td>
</tr>
<tr>
<td>PH 743</td>
<td>Environmental Risk Assessment</td>
<td></td>
</tr>
<tr>
<td>PH 750</td>
<td>Seminar in Environmental Health Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1 credit)</td>
<td></td>
</tr>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td></td>
</tr>
</tbody>
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**Select one of the following:**

- ARCH 790 Special Topics: (LEED for Existing Buildings: Operations and Maintenance Assessment for Environmental, Economic, and Social Impact)
- GEOG 520 Physical Geography of the City
- GEOG/URBPLAN 880 Urban Sustainability
- GEOG 945 The Internal Structure of the City
- IND ENG 580 Ergonomics
- URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning

**Other classes as approved by advisor**

**Chemical Environment “S” Elective** 3

Select one of the following:

- PH 741 Environmental Public Health Microbiology
- PH 744 Environmental Toxicology
- PH 745 Developmental Toxicology

**Other classes as approved by advisor**

**Biological Environment “S” Elective** 3

Select one of the following:

- PH 741 Environmental Public Health Microbiology
- PH 745 Developmental Toxicology
- PH 775 Mechanisms of Infectious Disease

**Other classes as approved by advisor**

**Elective** 3

Select one additional course from the Built, Chemical, or Biological “S” electives listed above or other classes as approved by advisor

**Total Credits** 22

**Additional Requirements**

**Faculty Advisor**

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

UWM’s Zilber School recognizes the importance of a strong faculty advising program coupled with a sound system for monitoring student progress in all programs. Each semester, students are asked to assess their own progress through a required survey. They also complete a progress form together with their advisor. Feedback to students will be provided by their faculty advisor in December during their advisor-student meeting.

Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH’s Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.
The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

Master of Public Health

The Master of Public Health offered by the Zilber SPH is a professional master’s degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH’s program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
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**MPH Required Common Core Courses (24-25 credits)**

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**Capstone**

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**Epidemiology Concentration**

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<tbody>
<tr>
<td>PH 700</td>
<td>Structures of Inequality and Population Health</td>
<td>5</td>
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<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td>PH 761</td>
<td>Epidemiology Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>PH 763</td>
<td>Epidemiology for Equity</td>
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**Electives**

Select one of the following:

- PH 762 Environmental Epidemiology
- PH 768 Cancer Epidemiology
- PH 769 Critical Perspectives on Nutritional Epidemiology and the Food System

**Other classes as approved by advisor**

**Electives**

Select two of the following:

- PH 713 Analyzing Observational and Experimental Data
- PH 714 Statistical Genetics and Genetic Epidemiology
- PH 715 Applied Categorical Data
- PH 716 Applied Survival Analysis
- PH 717 Applied Longitudinal Data Analysis
PH 727  Program Planning & Implementation in Public Health
PH 728  Program Evaluation in Public Health
PH 729  Survey Research Methods in Public Health (not both)
or SOCIOL 752  Fundamentals of Survey Methodology
PH 784  Social and Economic Policy as Health Policy
PH 868  Epidemiologic Links Between Infectious and Chronic Disease
GEOG 525  Geographic Information Science
URBPLAN 692  Special Topics in Urban Planning: (Data Analysis and Visualization)

Other classes as approved by advisor

Total Credits 24

Additional Requirements

Faculty Advisor
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Thesis
Not required. See capstone for similar culminating experience.

Comprehensive Examination
Not required. See capstone for similar culminating experience.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Accelerated Program Option
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Public Health, MPH: Public Health Policy and Administration
Public health policy includes local, state, and federal policies that directly or indirectly impact the level and distribution of health in the population.

At the Zilber School, we take a broad inter-sectoral view that includes a “Health in All Policies” approach. This framework recognizes that the level and distribution of health and wellbeing in the population are fundamentally shaped by public policies that create the social and economic conditions that underlie population health and health equity.

What makes our program distinct?
The Public Health Policy & Administration (PHPA) track is nationally distinct in its inter-sectoral, systems-level, and justice focused curriculum. Emphasizing the social, political, and economic determinants of health, students in the PHPA track gain foundational understanding of social and policy theories, and their relevance to public health practice and policymaking in various contexts.

The PHPA track also uniquely trains students in both quantitative, econometric policy analysis and qualitative research methods, with application to real-world public health policy problems.

Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/)

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Public Health Policy and Administration Concentration

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<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH (Social Determinants of Health) or PH 777</td>
<td>15</td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>PH 779</td>
<td>Public Health Policymaking and Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 781</td>
<td>Public Health Administration</td>
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</tr>
<tr>
<td>PH 785</td>
<td>Principles of Public Health Economics</td>
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Content Electives 3
Choose at least one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 700</td>
<td>Structures of Inequality and Population Health</td>
</tr>
<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System</td>
</tr>
<tr>
<td>PH 774</td>
<td>Violence and Health</td>
</tr>
<tr>
<td>PH 784</td>
<td>Social and Economic Policy as Health Policy</td>
</tr>
<tr>
<td>PH 820</td>
<td>Maternal and Child Health Foundations, Policy and Practice</td>
</tr>
<tr>
<td>PH 859</td>
<td>Racial/Ethnic Health Disparities in the United States</td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

Methods and Practice Electives 6
Choose at least two:

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PH 726</td>
<td>Community Health Assessment</td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
</tr>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
</tr>
<tr>
<td>PH 733</td>
<td>Epidemiology for Equity</td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
</tr>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
</tr>
<tr>
<td>ED POL 602</td>
<td>Proposal Writing and Fundraising Skills for Community-Based Organizations</td>
</tr>
<tr>
<td>ED POL 711</td>
<td>Community Change and Engagement Strategies:</td>
</tr>
<tr>
<td>NONPROF 791</td>
<td>Nonprofit Advocacy and Public Policy</td>
</tr>
<tr>
<td>PUB ADM 630</td>
<td>Budgeting and Finance in the Public Sector</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
</tr>
</tbody>
</table>

Total Credits 24

* Both the PH 759 and PH 777 instructors must approve students’ selection of PH 759 for appropriate quantitative level and content.

Additional Requirements

Faculty Advisor
Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

UWM’s Zilber School recognizes the importance of a strong faculty advising program coupled with a sound system for monitoring student progress in all programs. Each semester, students are asked to assess their own progress through a required survey. They also complete a progress form together with their advisor. Feedback to students will be provided by their faculty advisor in December during their advisor-student meeting.

Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH’s Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.

Thesis
Not required. See capstone for similar culminating experience.

Comprehensive Examination
Not required. See capstone for similar culminating experience.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.

Accelerated Program Option
This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).
Public Health, PhD: Biostatistics

Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/)

The Biostatistics doctoral program is designed to train students in the development of techniques, methods and tools to conduct public health research using rigorous statistical, bioinformatics and general quantitative methods. Faculty interest areas include: bioinformatics, statistical genetics, network analysis, causal inference, survival analysis, and high throughput computing.

Students entering the program will be trained at the graduate level in the analysis of data from genetics and genomics, electronic medical records, and population-based epidemiological studies. Such research will include approaches requiring large populations, large data sets, and as needed, the collection, processing and analysis of data used in the pursuit of improving the public's health. Graduates of this program will be able to participate and execute the study design, data collection, analysis and dissemination of results. Technical areas include database management, causal inference, network analysis, medical and population genetics, as well as tools and techniques for acquiring, processing, warehousing, and analyzing public health data. Other areas of expertise include data mining, computer-based decision support systems, and computational biology. The PhD in Public Health with a concentration in Biostatistics requires 69 course credits beyond the Bachelor's degree. Coursework includes core courses as outlined below, methods courses, electives, and credits taken as doctoral research.

Upon graduation, a student completing the requirements for the PhD in Public Health with a concentration in Biostatistics will be able to:

1. Develop new statistical methodologies to solve problems in biomedical, clinical, public health, or other fields
2. Contribute to the body of knowledge in the field of biostatistics by writing and successfully submitting manuscripts for publication in a peer-reviewed journal
3. Perform all responsibilities of a statistician in collaborative research; in particular: design studies, manage and analyze data and interpret findings from a variety of biomedical, clinical or public health experimental and observational studies
4. Communicate statistical information effectively with individuals with varying degrees of statistical knowledge through written and oral presentations
5. Use statistical, bioinformatic and other computing software to organize, analyze, and visualize data
6. Review and critique statistical methods and interpretation of results in published research studies, presentations, or reports
7. Demonstrate solid theoretical knowledge necessary for the development and study of new statistical methods
8. Understand and implement modern statistical approaches emerging in the literature to improve biomedical and public health

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Applicants to the PhD program in Public Health with a concentration in Biostatistics should have completed academic programs that facilitated development of solid analytical skills. Applicable baccalaureate programs include mathematics, statistics, computer science, and engineering. Baccalaureate degrees in related fields will be considered. A minimum undergraduate grade point average of 3.00 (A=4.00) is required. Applicants from diverse backgrounds are encouraged to apply. Each application will be evaluated individually primarily on the basis of academic achievement, although relevant work experience will also be considered.

Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master's degree in public health or the social and behavioral sciences is encouraged, a master's degree is not a prerequisite for admission. For those applicants without a master's degree in a relevant field, most successful candidates will have work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

Students must meet UWM Graduate School admission requirements. For international applicants whose native language is not English, the UW-Milwaukee Center for International Education Website provides English Language Proficiency Requirements including required TOEFL or IELTS scores. Students who attended an international university must also pay an additional fee for evaluation of international transcripts.

In addition, a personal statement, and at least three letters of recommendation from individuals familiar with the applicant's scholarship, research achievements, and/or academic potential are required for the application. The letters of recommendation should address the candidate's potential for achievement in a graduate program from an academic as well as personal (e.g., commitment, integrity,
ethical) standpoint. At least one letter must be from a university faculty member.

A select group of the most qualified candidates will be invited to participate in an interview process. In-person or internet-facilitated interviews (Skype, etc.) will be required for finalist candidates prior to admission.

Applicants may be admitted with course deficiencies at the discretion of the ZSPH Graduate Program Committee. The student is expected to rectify these course deficiencies with a grade of B or better within three enrolled semesters. The academic program unit will monitor deficiencies. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For students entering with an advanced degree, the Admissions Committee can grant credit for relevant coursework at its discretion, but at least half of the graduate credits required for the PhD must be completed at UW-Milwaukee in doctoral status in accordance with Graduate School policy. Thesis, dissertation, and research credits must be completed at UW-Milwaukee.

Reapplication
A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Credits and Courses

Biostatistics Concentration
Minimum degree requirement is 60 graduate credits beyond the bachelor’s degree (plus an additional 9 credits dedicated to dissertation writing and research), at least 35 of which must be earned in residence at UWM. The student, in consultation with the major professor, must create a plan of study and submit to the Biostatistics Faculty by the end of the first year. Minimum course requirements for all work requires approximately two to three full years of study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
<td>3</td>
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</table>

Method Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MTHSTAT 761</td>
<td>Mathematical Statistics I</td>
<td>3</td>
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<tr>
<td>MTHSTAT 762</td>
<td>Mathematical Statistics II</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<td>3</td>
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<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
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<tr>
<td>MATH 771</td>
<td>Theory of Probability</td>
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<tr>
<td>MWC 04285</td>
<td>Introduction to Bayesian Analysis</td>
<td></td>
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<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
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</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R (TBD)</td>
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<tr>
<td>PH 813</td>
<td>Practice of Biostatistical Consulting</td>
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<tr>
<td>PH 818</td>
<td>Statistical Computing</td>
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<tr>
<td>PH 911</td>
<td>Generalized Linear Models (TBD)</td>
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Total Credits 36

Electives (at least 27 credits)

<table>
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<tbody>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
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<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 720</td>
<td>Special Topics in Biostatistics:</td>
<td>1-3</td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 723</td>
<td>Design, Conduct and Analysis of Clinical Trials (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
<td>3</td>
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<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td>3</td>
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<tr>
<td>PH 768</td>
<td>Cancer Epidemiology (TBD)</td>
<td>3</td>
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<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System (TBD)</td>
<td>3</td>
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<tr>
<td>PH 8XX</td>
<td>Statistical Learning TBD</td>
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<tr>
<td>PH 8XX</td>
<td>Network Analysis TBD</td>
<td></td>
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<tr>
<td>PH 8XX</td>
<td>Causal Inference TBD</td>
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<tr>
<td>COMPSCI 708</td>
<td>Scientific Computing</td>
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<td>COMPSCI 711</td>
<td>Introduction to Machine Learning</td>
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<tr>
<td>BIO SCI 597</td>
<td>RNA Structure, Function, and Metabolism</td>
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<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
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<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
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<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
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</tr>
<tr>
<td>MATH 768</td>
<td>Applied Stochastic Processes</td>
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<tr>
<td>MTHSTAT 863</td>
<td>Hypothesis Testing</td>
<td>3</td>
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<tr>
<td>MTHSTAT 869</td>
<td>Advanced Topics in Mathematical Statistics:</td>
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<tr>
<td>PH 811</td>
<td>Causal Inference</td>
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<tr>
<td>PH 812</td>
<td>Statistical Learning &amp; Data Mining</td>
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<tbody>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
<td>1-8</td>
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</table>

Additional Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student’s research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

Residence
The student must meet minimum Graduate School residence requirements.
Preliminary Exam Process
The preliminary exams must be successfully completed within five years of initial enrollment in the Ph.D. program.

Students must successfully complete a preliminary examination process before formally achieving dissertator status. When the student is sufficiently prepared, a doctoral preliminary examination to determine the student's knowledge and achievement is taken. The exam evaluates the student's general knowledge of mathematical statistics, and general biostatistical and quantitative methods. Students must pass this examination to continue in the program. With permission of the examination committee, the student may repeat this examination once within one year. After successful completion of the qualifying process, the student will concentrate on the development of the dissertation.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

Public Health, PhD: Community and Behavioral Health Promotion

Related Certificate
- Interprofessional Graduate Certificate in Public and Population Health (http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/)

The Community and Behavioral Health Promotion (CBHP) doctoral program is designed to train students in social and behavioral science aspects of public health research and intervention with a particular emphasis on the development of community-level interventions. Faculty interest areas include: maternal, infant, and child health; health disparities; obesity; nutrition; food security; HIV and STD prevention; adolescent health; violence prevention; substance abuse prevention; creating healthy environments; and promoting mental health.

Students entering the program will be trained at the graduate level in community and behavioral health promotion from a public health perspective. Students will also have exposure to other key areas of public health (environmental health, epidemiology, biostatistics, and policy and administration), providing a broad foundation of public health research and practice. The PhD in Public Health with a concentration in CBHP requires 72 course credits beyond the Bachelor's degree. Coursework includes core courses as outlined below, research and methods courses, electives, and credits taken as pre-dissertation research supporting CBHP faculty research. In addition, students will prepare for public health leadership through their own original research.

Student research in community and behavioral health promotion may focus on the social and behavioral determinants of disease, illness, injury, and health, the interaction of social and behavioral factors with biological or environmental factors, or the efficacy of interventions to improve health through social and behavioral strategies within community settings.

This program aligns with UWM's mission to further academic opportunities at all levels for women, minority, part-time students, and financially or educationally disadvantaged students. In addition, the program consistently strives for diversity within its faculty ranks to achieve the University's goal for cultural competency in teaching and learning.

Upon graduation, a student completing the requirements for the PhD in Public Health with a concentration in Community and Behavioral Health Promotion will be able to:

1. Describe and critically evaluate the utility of key social and behavioral science theories for public health research.
2. Design and implement theory driven community and behavioral health prevention and intervention research.
3. Apply social and environmental justice philosophies, theories, and frameworks to public health research and the interpretation of research findings.
4. Describe the social-political-historical contexts that have shaped the development of community engaged research including community based participatory approaches.
5. Describe the unique contributions of community engaged approaches to community and behavioral health research and interventions.
6. Critically appraise different methodological strategies in developing and implementing community engaged research.
7. Apply qualitative and advanced quantitative methods to the study of public health problems, the assessment of community strengths and the evaluation of prevention and intervention programs.
8. Use research findings to advocate for policies, programs, and resources that improve the health of communities.
9. Demonstrate respect for the integrity and perspectives of others in all professional contexts.
10. Demonstrate an advanced understanding of how to manage ethical issues in community and behavioral health research and practice.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Applicants to the PhD program in Public Health with a concentration in Biostatistics should have completed academic programs that facilitated development of solid analytical skills. Applicable baccalaureate programs include mathematics, statistics, computer science, and engineering. Baccalaureate degrees in related fields will be considered. A minimum undergraduate grade point average of 3.00 (A=4.00) is required. Applicants from diverse backgrounds are encouraged to apply. Each application will be evaluated individually primarily on the basis of academic achievement, although relevant work experience will also be considered.

Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master's degree in public health or the social and behavioral sciences is encouraged, a master's degree is not a prerequisite for admission. For those applicants without a master's degree in a relevant field, most successful candidates will have
work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest/awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

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Reapplication
A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Credits and Courses

Concentration in Community and Behavioral Health Promotion
A minimum of 72 credits of coursework beyond the bachelor’s level must be completed to earn the degree, at least 35 of which must be earned in residence at UW-Milwaukee. The course list consists of required common Ph.D. core courses, CBHP core courses, research and methods courses, and elective courses. Also, students will be required to complete three credits of supervised research under the tutelage of the primary advisor prior to the required dissertation research requirement. This is to ensure that all students obtain hands-on, supervised research training. After achieving dissertation status, students will enroll in three research credits per semester for at least two semesters.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 711 or PH 759</td>
<td>Intermediate Biostatistics or Introduction to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Intro to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td>PH 820</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>or PH 859</td>
<td>Racial/Ethnic Health Disparities in the United States</td>
<td>3</td>
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CBHP PhD Required Courses 36

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
</tr>
<tr>
<td>PH 725</td>
<td>Theories and Models of Health Behavior</td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
</tr>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
</tr>
<tr>
<td>PH 820</td>
<td>Maternal and Child Health Foundations, Policy and Practice</td>
</tr>
<tr>
<td>PH 823</td>
<td>Applied Analysis of Binary Outcomes in Public Health Research</td>
</tr>
<tr>
<td>PH 826</td>
<td>Principles of Community Intervention Research</td>
</tr>
<tr>
<td>PH 827</td>
<td>Research Design in Community and Behavioral Health Promotion</td>
</tr>
<tr>
<td>PH 831</td>
<td>Community Engagement and Participatory Research Approaches in Public Health</td>
</tr>
<tr>
<td>PH 919</td>
<td>Core Seminar in Community and Behavioral Health Promotion</td>
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Required Advanced Quantitative Courses 3

Choose at least one course:

<table>
<thead>
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<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
</tr>
<tr>
<td>SOCIO 982</td>
<td>Advanced Quantitative Analysis</td>
</tr>
<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
</tr>
<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
</tr>
</tbody>
</table>

CBHP Elective Courses 9

Choose at least three courses:
### Additional Requirements

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student's research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

**Residence**

The student must meet minimum Graduate School residence requirements.

**Preliminary/Qualifying Exam Process**

The qualifying exams must be successfully completed within five years of initial enrollment in the Ph. D. program.

The preliminary exam is designed to assess a student's mastery of knowledge and skills to ensure adequate preparation for individual dissertation research. Students taking the preliminary exam are expected to demonstrate knowledge, competency and mastery of core public health concepts, issues and content relevant to the CBHP PhD Program. The preliminary exam consists of three sections: an open book integrative review, a closed book exam focusing on a case study, and an oral exam. (Please refer to the CBHP Qualifying Exam Policies and Procedures.) At the discretion of the examining committee, a student who fails the qualifying process may be allowed one additional attempt with all or part of the examination. After successful completion of the qualifying process, the student will concentrate on the development of the dissertation.

**Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

---

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
</tr>
<tr>
<td>ANTHRO 744</td>
<td>Theories of Social Action: Understanding Agency &amp; Social Structure</td>
</tr>
<tr>
<td>PH 752</td>
<td>Public Health and Mental Health</td>
</tr>
<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
</tr>
<tr>
<td>PH 768</td>
<td>Cancer Epidemiology</td>
</tr>
<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System</td>
</tr>
<tr>
<td>HS 917</td>
<td>Seminar in Health Outcomes Assessment</td>
</tr>
<tr>
<td>SOCIOL 910</td>
<td>The Sociology of Inequality</td>
</tr>
<tr>
<td>SOCIOL 982</td>
<td>Advanced Quantitative Analysis</td>
</tr>
<tr>
<td>SOCIOL 715</td>
<td>Systematic Sociological Theory</td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare</td>
</tr>
<tr>
<td>ED POL 711</td>
<td>Community Change and Engagement Strategies:</td>
</tr>
<tr>
<td>KIN 732</td>
<td>Physical Activity and Health Across the Lifespan</td>
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**Pre-Dissertation Research**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
</tr>
</tbody>
</table>

**Doctoral Thesis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
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**Total Credits**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
</tr>
</tbody>
</table>

1. Prereq: PH 702 Introduction to Biostatistics or approval for equivalent course.
2. Or other qualitative analysis course approved by advisor.
3. Other advanced quantitative courses will be considered.
4. Other electives may be considered (such as advanced qualitative and quantitative courses).
The Helen Bader School of Social Welfare offers programs to educate students about social policies and programs, and to train them for beginning level practice in a variety of professional roles in social work and criminal justice. Its location in metropolitan Milwaukee gives students numerous opportunities to gain practical experience in social, health, educational, or criminal justice agencies.

Undergraduate majors in both social work and criminal justice lead to the Bachelor of Science degree, and are designed to prepare students for available entry-level positions in their respective fields. These programs also provide excellent preparation for graduate work.

The School also offers graduate programs at the master's degree level in both criminal justice and social work.

**Degree Programs**

**Bachelor of Science** Criminal Justice, Social Work

**Master of Science**

**Master of Social Work**

**Doctor of Philosophy** Social Welfare

**Departments and Programs**

- Criminal Justice and Criminology (p. 1292)
  - Crime Analysis, Undergraduate Certificate (p. 1293)
  - Criminal Justice, BS (p. 1293)
  - Criminal Justice, Minor (p. 1295)
  - Criminal Justice, MS (p. 1295)
  - Criminal Justice, MS/Public Administration, MPA (p. 1296)
  - Criminal Justice, MS/Social Work, MSW (p. 1297)
  - Criminal Justice, MS: Crime Analytics (p. 1298)
- Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1300)
- Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1301)
- Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1301)
- Military Science (p. 1302)
- Social Work (p. 1304)
  - Applied Data Analysis Using SAS, Graduate Certificate (p. 1305)
  - Applied Gerontology, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1307)
  - Social Welfare, PhD (p. 1308)
  - Social Work, BS (p. 1310)
  - Social Work, MSW (p. 1312)
  - Social Work, MSW/Criminal Justice, MS (p. 1315)
  - Social Work, MSW/Public Health, MPH (p. 1316)
  - Social Work, MSW/Social Welfare, PhD (p. 1318)
  - Social Work, MSW/Women's and Gender Studies, MA (p. 1321)

- Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1322)

**Graduate Admission Requirements**

Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admissions and Cost (p. 20) for the graduate school's admission requirements, and to the specific program for the program's admission requirements.

**Undergraduate Admission**

**Freshmen**

Freshmen entering UWM who indicate an interest in criminal justice or social work are admitted directly into the Helen Bader School of Social Welfare, and are designated criminal justice or social work majors.

Admission to the University does not guarantee enrollment in the social work major; a separate application will be required to advance in the major.

**Transfer Students**

Transfer students who transfer from outside UWM to criminal justice or social work become criminal justice or social work intended majors upon admission regardless of the number of credits they transfer. They can apply for admission to the major when they have at least junior standing and have completed one full-time semester or the equivalent at UWM. Those who transfer from two-year UW College campuses, Milwaukee Area Technical College, and other two-year institutions (junior colleges) are generally allowed to transfer up to 72 credits toward a degree in the Helen Bader School of Social Welfare. Students may request an unofficial credit evaluation (https://uwm.edu/socialwelfare/transfer/).

**Second Bachelor's Degree Students**

Second bachelor's degree students applying to the University who already hold one bachelor's degree and who wish to pursue a second degree in either criminal justice or social work are directly admitted and social work majors must submit a separate application to advance in the major. They must complete at least 30 credits at UWM beyond the credits that counted toward the first degree, and must satisfy the same degree and curriculum requirements as students working towards a first degree in the same major.

Special students in the Helen Bader School of Social Welfare and University special students are permitted to register in any undergraduate course offered by the School, provided they meet the stated prerequisites or are admitted to the course by the instructor.

**Requirements for Employment, Licensing, or Professional Organizations**

Effective October 1, 1998, changes in Chapters 48 (Children's Code) and 50 (Uniform Licensure) of the Wisconsin State Statutes make it a requirement for selected organizations to perform rigorous background checks of persons who provide care for vulnerable adults and children or who have access to people who receive such care.

The results of these background checks are intended to help employers and government officials in making employment and licensing decisions. The law affects anyone who is employed as a caregiver or who has access to clients within caregiving organizations, including students. The organizations required to perform these background checks are those
that are regulated by the State Department of Health and Family Services (DHFS).

The law means that if you are going to train (including a field or clinical placement) or work in an agency providing care to vulnerable adults or children, and that agency is regulated by DHFS, a background check will be required of you. A background check may be required even if you do not have direct caregiving responsibilities to clients. Depending on the circumstances, a student may be disqualified from field placement in certain agencies as a result of this law. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations
Academic Regulations
For information on actions on unsatisfactory grades and honors for scholarship, see Academic Policies (p. 22).

Semester Course Load
Registration for more than 18 credits in a given semester requires the advisor’s permission. For students in the School’s majors, this permission will be given upon advice of the appropriate program chair.

Change in Requirements
If curriculum requirements are changed after the student has been formally accepted in the major, the student is free to remain with the former requirements or to follow the new ones.

Administration
Tina Freiburger
Dean

Gwat-Yong Lie
Associate Dean

David J. Pate Jr.
Chair, Social Work Department

Amy Kirby
Coordinator, Graduate Social Work Program

Margaret Maillet
Coordinator, Undergraduate Social Work Program

Tom LeBel
Chair, Department of Criminal Justice & Criminology

Danielle Romain Dagenhardt
Coordinator, Graduate Criminal Justice & Criminology Program

Contact Information
Student Services
Enderis Hall, 10th Floor
Phone: (414) 229-4852
http://uwm.edu/socialwelfare/

Criminal Justice and Criminology
Study the criminal justice system through legal and political lenses, examining the nature, causes and impact of crime. Students learn through courses taught by experienced faculty, and in fieldwork opportunities, to improve their listening, speaking, writing, analytical and evaluative skills. They graduate prepared to work in law enforcement, corrections and the courts.

Programs
• Crime Analysis, Undergraduate Certificate (p. 1293)
• Criminal Justice, BS (p. 1293)
• Criminal Justice, Minor (p. 1295)
• Criminal Justice, MS (p. 1295)
• Criminal Justice, MS/Public Administration, MPA (p. 1296)
• Criminal Justice, MS/Social Work, MSW (p. 1297)
• Criminal Justice, MS: Crime Analytics (p. 1298)
• Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1300)
• Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1301)
• Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1301)

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steven G. Brandl</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Danielle Romain</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dagenhardt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tina Freiburger</td>
<td>Professor</td>
<td>PhD</td>
<td>Indiana University of Pennsylvania</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kimberly Hassell</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Nebraska-Omaha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rebecca Konkel</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Georgia State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas LeBel</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>SUNY - Albany</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theodore Lentz</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Missouri-St. Louis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stan Stojkovic</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Crime Analysis, Undergraduate Certificate

The Department of Criminal Justice & Criminology offers a specialization, a minor, and a post-baccalaureate certificate in Crime Analysis. Crime analysts gather crime and disorder data, identify and analyze patterns, trends and problems, develop recommendations based on their findings, and create and disseminate information that helps criminal justice agencies address crime and allocate resources.

A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented technology, and data-driven policing; and field placement in an agency setting with practicing professionals.

Requirements

Course of Study: Specialization in Crime Analysis

The specialization in Crime Analysis is designed for students completing their major in Criminal Justice and consists of 18 credits, with the following courses (or equivalents) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 120</td>
<td>Information Technology Ethics</td>
<td></td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 530</td>
<td>Data Driven Policing Strategies and Police Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

Course of Study: Certificate in Crime Analysis

The Certificate in Crime Analysis is designed for students who already have a bachelor's degree in any field and consists of 21 credits, with the following courses (or equivalents) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 120</td>
<td>Information Technology Ethics</td>
<td></td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 530</td>
<td>Data Driven Policing Strategies and Police Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

Contact Information

Criminal Justice Department
Enderis Hall, 1110
2400 E Hartford Ave.

Phone: 414-229-4852
freiburg@uwm.edu

http://uwm.edu/socialwelfare/academics/crime-analytics/

Criminal Justice, BS

Study in the field of criminal justice examines the component parts of criminal justice — police, courts, and corrections — and seeks to gain an understanding of the interdependencies among them. Courses emphasize the role of criminal justice agencies in society, particularly in relation to the impact of alternative criminal justice policies on society and social problems. The program prepares students as generalists in criminal justice and is well suited for those who want to pursue graduate work in criminal justice, law, public administration, and the social sciences.

Thousands of our graduates have gone on to careers with the public sector, private sector and non-profit organizations, including jobs such as FBI agent, intelligence analyst, police officer, evidence technician, border patrol agent, computer security expert, probation officer, customs inspector, and private investigator.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Curriculum Requirements (p. 1293)</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Major Requirements (p. 1294)</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>General Electives (p. 1294)</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

General Curriculum Requirements

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (http://www4.uwm.edu/schedule/). The UWM General Education Requirements (p. 29) apply to all students who were not enrolled in an accredited institution prior to 1986.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.</td>
<td></td>
</tr>
<tr>
<td>Liberal Arts Foundation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UWM Foreign Language Requirement</td>
<td>Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability</td>
<td></td>
</tr>
<tr>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement.

Arts
Select 3 credits of General Education-approved art courses in the history, philosophy, theory, or practice of the creative and interpretive arts

Humanities
COMM 103 Public Speaking 3

Select 6 credits of General Education-approved humanities courses

Natural Science
Select 6 credits of General Education-approved natural science courses to include a lab or field course

United States History and Institutions
HIST 151 American History: 1607 to 1877 3
HIST 152 American History: 1877 to the Present 3

Social Science
Select 9 credits of General Education-approved social science courses

Total Credits 33

Major Requirements
Criminal justice intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

Students must complete at least 120 credits to obtain the degree. The major in criminal justice requires a minimum of 45 credits in required courses and electives. The Department requires that students attain at least a 2.0 GPA on all credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work, to meet graduation requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 271</td>
<td>Introduction to Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 273</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 275</td>
<td>Introduction to Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 305</td>
<td>Criminological Theory and Policy</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 310</td>
<td>Race, Ethnicity, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 663</td>
<td>Criminal Justice Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 370</td>
<td>Criminal Justice Administration</td>
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</tr>
<tr>
<td>CRM JST 380</td>
<td>Victimology</td>
<td></td>
</tr>
<tr>
<td>CRM JST 410</td>
<td>Comparative Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>CRM JST 671</td>
<td>Juvenile Justice</td>
<td></td>
</tr>
</tbody>
</table>

Criminal Justice Electives
Select 15 credits

Fieldwork

Complete up to 6 credits

Total Credits 45

1. SOC WRK 100 and SOC WRK 306 count as electives in the criminal justice major.
2. Upon approval of the Criminal Justice Field Coordinator, the student may earn up to 6 credits of Criminal Justice electives for authorized field placements with various criminal justice agencies including police departments, court-related agencies, and correctional institutions.

General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 100</td>
<td>Introduction to College Writing and Reading</td>
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</tr>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>

Foreign Language credits

Total Credits 42

Credits earned in HONORS 687 or HONORS 689 will not count towards the major.

Degree Requirements
An overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits are needed for graduation. To receive the bachelor's degree with a criminal justice major, the student must complete at least 30 degree credits at UWM. At least 50% of the credits required for the Criminal Justice major must be earned at UWM.

Undergraduate Academic Advising
The Office of Student Services in the Helen Bader School of Social Welfare, located in Enderis Hall on the 10th floor, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student’s interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.

Transfer Students
The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM.
from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information. Students may request an unofficial credit evaluation (https://uwm.edu/socialwelfare/transfer/).

Accelerated Program Option
This program is offered as part of an accelerated bachelor’s/master’s program. For more information, see Accelerated Master’s Degrees (p. 39).

Honors in the Major
Honors in the Major are granted to students who have earned a GPA of 3.500 or above in major courses, including social science credits completed at UWM.

Honors in the School of Social Welfare
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Office of Student Services
Enderis Hall, 1110
2400 E Hartford Ave.

Phone: 414-229-4852
hbssw@uwm.edu

Criminal Justice, Minor
The minor in criminal justice is a strong complement for students studying journalism, politics, sociology, social work, political science, or philosophy; students who plan on attending law school; and students who seek careers in public service.

Requirements
Standard Track
The standard minor track requires a minimum of 18 credits in criminal justice courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 271</td>
<td>Introduction to Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 273</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 275</td>
<td>Introduction to Criminal Courts</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Select 6 credits in courses at the 300 level or above</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Credits earned in CRM JST 311 and CRM JST 599 do not count toward the minimum number of credits required for the standard minor track.

Crime Analysis Track
The crime analysis minor track consists of 18 credits, with the following courses (or equivalents approved by the department chairperson) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 530</td>
<td>Data Driven Policing Strategies and Police Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

A minimum of 15 credits must be taken in residence at UWM.

Criminal Justice, MS
The School of Social Welfare offers a master’s program of study in criminal justice. The program is designed to educate students for leadership positions in the field of criminal justice. The program also provides a strong foundation for students anticipating advanced study at the doctoral level. The curriculum is also designed to prepare Criminal Justice professionals to understand all aspects of criminal justice policy. Legal, organizational, political and behavioral frameworks are used to analyze the operation of the criminal justice system. Students are introduced to advanced knowledge on the nature and causes of crime, the justification and means of social control, the administration of the justice system, and the evaluation of criminal justice programs.

Requirements
Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found.
by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
An applicant must meet all Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program-specific requirements to be considered for admission:

- Undergraduate degree from an accredited university in criminal justice, a related social science, or other relevant educational background.
- Undergraduate cumulative grade point average (GPA) of 3.00.
- In addition, applicants with an undergraduate cumulative GPA between 2.75-2.99 may be considered for admission but must also submit satisfactory scores on the verbal and quantitative sections of either the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (GRE) or the Miller Analogies Test (MAT).
- Two letters of recommendation from persons who are familiar with the applicant's academic record and suitability for graduate work.
- It is recommended that applicants have completed a research methods course and a statistics course at the undergraduate level prior to beginning the program.

Application
Application must be made to the Graduate School. Applicants may be admitted to the program for Fall, Spring or Summer (note graduate course offerings are currently limited in the summer session). For further information regarding the application process, please contact the Criminal Justice Department office at (414) 229-2392.

Credits and Courses
The Master of Science in Criminal Justice consists of a minimum of 33 graduate credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 773</td>
<td>Criminological Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 920</td>
<td>Criminal Justice Masters Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select an additional 12 credits of Criminal Justice Electives (4 courses)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select an additional 6 credit hours taken elsewhere in the School of Social Welfare or in other UWM departments with the prior consent of advisor</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Courses taken within the Criminal Justice program</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Must include 15 credits of:</td>
<td></td>
</tr>
</tbody>
</table>

Students planning to go into doctoral programs are strongly encouraged to pursue the essay option.

Option A: Essay Option
Students must complete the required proseminars and, as part of the 33 graduate credits required, must complete 3 credits of research and a graduate-level statistics course approved by the student's faculty advisor.

Option B: Non-Essay Option
Students must complete the 33 graduate credits required, including the three proseminars and the criminal justice capstone seminar course.

Additional Requirements
Major Professor as Advisor
The student must have a faculty advisor to advise and supervise the student's studies as specified in Graduate School regulations. At the time of admission, the Graduate Program Director will assign each student to a faculty advisor. Students who begin to work closely with a particular faculty member with expertise in their area of interest may request that this faculty member serve as their advisor. Students who pursue the Essay Option must choose a faculty member to serve as their major professor.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Accelerated Program Option
This program is offered as part of an accelerated bachelor's/master's program. For more information, see Accelerated Master's Degrees (p. 39).

Criminal Justice, MS/Public Administration, MPA
Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

Requirements
Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MPA program.

Credits and Courses
Students accepted into this MS/MPA program complete the following courses:
MS in Criminal Justice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Criminological Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 12 additional credits within the criminal justice program 12
Select 12 additional credits with the consent of the student’s advisor 12

Total Credits 33

Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

Track A
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

Track B
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Code | Title                                      | Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td></td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Capstone
PUB ADM 959 | Capstone Seminar in Public Administration | 3

General Public Administration
Select three of the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 42

1 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

2 An internship is mandatory for students with no public sector work experience.

Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Additional Requirements

Time Limit
Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Criminal Justice, MS/Social Work, MSW

Both departments in the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice, or social work with a focus on criminal justice (e.g., corrections, juvenile justice, probation and parole, etc).

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM
Graduate School, the MS in Criminal Justice and the MSW program in the Helen Bader School of Social Welfare.

Credits and Courses

Students accepted into this MS/MSW program complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Criminological Perspectives (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research (G)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 additional credit hours of courses within the criminal justice program

Select 12 credit hours of Social Work courses with the consent of the student's advisor

Students must complete the requirements of the Essay Option or Non-Essay Option as the degree capstone

Social Work Foundation Curriculum

| SOC WRK 604 | Social Systems and Social Work Practice (U/G)       | 3       |
| SOC WRK 662 | Methods of Social Welfare Research (U/G)            | 3       |
| SOC WRK 665 | Cultural Diversity and Social Work (U/G)            | 3       |
| SOC WRK 705 | Individual Behavior and Social Welfare (G)          | 3       |
| SOC WRK 708 | Social Work Methods I: Individuals and Families (G) | 3       |
| SOC WRK 709 | Social Work Methods II: Groups, Organizations and Communities (G) | 2       |
| SOC WRK 721 | Field Instruction I (G)                             | 3       |
| SOC WRK 750 | Social Welfare Policy Development and Implementation (G) | 2       |

Social Work Advanced Practice Curriculum

| SOC WRK 722 | Field Instruction II                               | 3       |
| SOC WRK 821 | Field Instruction III                              | 4       |
| SOC WRK 822 | Field Instruction IV                               | 4       |

Select one of the following options:

Option 1:

SOC WRK 711 Direct Social Work Practice I

SOC WRK 811 Direct Social Work Practice II

Select one additional practice course

Option 2:

SOC WRK 713 Community Organization, Planning and Human Service Administration I

SOC WRK 915 Human Services Administration II

Select one additional practice course

SOC WRK 793 Evaluation of Practice

SOC WRK 794 Evaluation of Programs

Concentration

SOC WRK 851 Social Issue and Policy Analysis

Select one of the following (depending on area of concentration):

SOC WRK 685 Social Gerontology

Electives

Select 6 credits of electives

Total Credits 89

1. The capstone requirement is satisfied by SOC WRK 822.
2. Requires sections to be selected from within the specialized concentration area.
3. Electives selected from among successfully completed CJ courses in consultation with faculty advisor.

Total Credits for Coordinated Degree: 71 (without a BSW) or 49 (with a BSW).

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. Degrees will be awarded simultaneously.

A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Additional Requirements

Time Limit

Students in the coordinated MS/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Criminal Justice, MS: Crime Analytics

The Department of Criminal Justice offers a Crime Analytics Concentration at the master’s level. A sequence of courses will lead to a concentration in this growing area. Preparation includes a foundation in criminal justice, research methods, and criminological theory. It also includes specialized coursework in measuring crime, crime mapping, and analytic techniques for understanding crime and crime patterns. At the conclusion of the program, students will complete a crime analytics project to demonstrate their mastery of crime analytics.

Students entering the Concentration in Crime Analytics choose one of the two tracks:

- Crime Analytics Track
- Advance Crime Analytics Track

General Degree Information

The School of Social Welfare offers a master’s program of study in criminal justice. The program is designed to educate students for leadership positions in the field of criminal justice. The program also provides a strong foundation for students anticipating advanced study at the doctoral level. The curriculum is also designed to prepare Criminal Justice professionals to understand all aspects of criminal justice policy. Legal, organizational, political and behavioral frameworks are used to analyze the operation of the criminal justice system. Students are introduced to advanced knowledge on the nature and causes of crime, the justification and means of social control, the administration of the justice system, and the evaluation of criminal justice programs.
The Master of Science in Criminal Justice consists of a minimum of 33 credits and courses.

Admission
An applicant must meet all Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these program-specific requirements to be considered for admission:

- Undergraduate degree from an accredited university in criminal justice, a related social science, or other relevant educational background.
- Undergraduate cumulative grade point average (GPA) of 3.00.
- In addition, applicants with an undergraduate cumulative GPA between 2.75-2.99 may be considered for admission but must also submit satisfactory scores on the verbal and quantitative sections of either the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (GRE) or the Miller Analogies Test (MAT).
- Two letters of recommendation from persons who are familiar with the applicant's academic record and suitability for graduate work.
- It is recommended that applicants have completed a research methods course and a statistics course at the undergraduate level prior to beginning the program.

Application
Application must be made to the Graduate School. Applicants may be admitted to the program for Fall, Spring or Summer (note graduate course offerings are currently limited in the summer session). For further information regarding the application process, please contact the Criminal Justice Department office at (414) 229-2392.

Credits and Courses
The Master of Science in Criminal Justice consists of a minimum of 33 graduate credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 773</td>
<td>Criminological Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 920</td>
<td>Criminal Justice Masters Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Select an additional 12 credits of Criminal Justice Electives (4 courses)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select an additional 6 credit hours taken elsewhere in the School of Social Welfare or in other UWM departments with the prior consent of advisor.</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

The student must pursue either Option A: Essay Option, or Capstone Option B: Non-Essay Option described below.

Option A: Essay Option
Students must complete the required proseminars and, as part of the 33 graduate credits required, must complete 3 credits of research and a graduate-level statistics course approved by the student's faculty advisor. Students planning to go into doctoral programs are strongly encouraged to pursue the essay option.

Essay
An acceptable essay must be written on the student's area of concentration.

Comprehensive Examination
The student must pass a final oral examination in defense of the essay.

Option B: Non-Essay Option
Students must complete the 33 graduate credits required, including the three proseminars and the criminal justice capstone seminar course.

Crime Analytics Track
Students who complete the Crime Analytics Track will be prepared to enter into crime analysis positions in law enforcement and in other criminal justice organizations. To complete this track, students will take the following series of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 716</td>
<td>Advanced Analytic Techniques for Crime Analysts</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 795</td>
<td>Issues in Law Enforcement Practice and Policy</td>
<td>3</td>
</tr>
<tr>
<td>or CRM JST 850</td>
<td>Issues in Correctional Practice and Policy</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 910</td>
<td>Methods and Practice Capstone for Crime Analysts</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

Students who complete the Crime Analytics track will also be required to complete the requirements of the master's in Criminal Justice, for a total of 33 credits. Students who completed CRM JST 520 at the undergraduate level can have another course substituted for CRM JST 520 with the permission of the department chair. Students who take CRM JST 910 will not need to take CRM JST 920. Students must receive a B or better in all the listed required courses in order to have the concentration posted on their transcripts.

Advanced Crime Analytics Track
The Advanced Crime Analytics track will be intensive in research methods and advanced statistical analysis. Students who complete the advanced track will be prepared for jobs as advanced analyst, to work with big data, and to conduct advanced predictive modeling. To complete this track, students will take the following series of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
</tbody>
</table>
Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 212</td>
<td>Drugs Used and Abused</td>
<td>3</td>
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</tbody>
</table>

Total Credits 24

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
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<tr>
<td>ANTHRO 404</td>
<td>Human Biological Variation</td>
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</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
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</table>

Total Credits 24

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

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</thead>
<tbody>
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<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
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<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
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</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
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</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
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Total Credits 24

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</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Human Biological Variation</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
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Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

- CHEM 194: First-Year Seminar 3
- CHEM 524: Instrumental Analysis 3
- CHEM 602: Biochemistry: Cellular Processes 3
- BMS 555: Toxicology and Therapeutic Drug Monitoring 1
- BMS 560: Molecular and Genetic Diagnostics 2
- BMS 561: Molecular Diagnostics Laboratory 1

<table>
<thead>
<tr>
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<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
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<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
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<tr>
<td>or ANTHRO 404</td>
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<td>3</td>
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<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
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<td>or HCA 212</td>
<td>Drugs Used and Abused</td>
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<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
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<td>Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory</td>
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Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

- ANTHRO/BMS/CRM/CHEM JST 285: Medicolegal Death Investigation 3
- ANTHRO/BMS/CRM JST 585: Internship in Forensic Toxicology 1-3
- ANTHRO/BMS/CRM JST 589: Internship in Death Investigation 1-3
- ANTHRO/BMS/CRM JST 594: Internship in Forensic Science 1-3
- ANTHRO 405: Forensic Anthropology 3
- CHEM 194: First-Year Seminar 3
- CHEM 524: Instrumental Analysis 3
- BMS 555: Toxicology and Therapeutic Drug Monitoring 1

Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.
experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensics Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
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<tbody>
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<td>or ANTHRO 404</td>
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Total Credits: 21

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

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<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
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<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar. (with forensic subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
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</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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</tbody>
</table>

BMS 560 Molecular and Genetic Diagnostics | 2
BMS 561 Molecular Diagnostics Laboratory | 1

Military Science

Army ROTC

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees or room and board, $1,200 a year for books, and a $300-$500 monthly stipend.

General Eligibility

To be eligible for an AROTC scholarship, students must:
- Be a United States citizen;
- Be a full-time student;
- Have no major civil convictions;
- Not be a conscientious objector;
- Be medically qualified;
- Have a minimum 2.5 GPA; and
- Have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts: the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

Basic Course

In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

Advanced Course

During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne
School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an “internship” in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- Complete the two years of the basic course;
- Attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- Complete U.S. Army Basic Training or its equivalent.

Field Exercises

Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

Physical Training

Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army (http://www.marquette.edu/rotc/army/).

Air Force ROTC

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four- and three-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

General Eligibility

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 29;
- For scholarship recipients, fulfill all commissioning requirements before age 31; and
- For non-scholarship students, fulfill all commissioning requirements before age 31.

General Military Course

The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training

AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course

The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a non-taxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Lab

Leadership Lab is a cadet-centered activity. It is largely cadet-planned and -directed, in line with the premise that it provides leadership training experience that will improve a cadet’s ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

AFROTC College Scholarship and High School Scholarship Programs

While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Maintain a 2.5 grade point average.
High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships are available at www.AFROTC.com (http://www.afrotc.com/). Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University; (414) 288-7682.

**Naval ROTC**

The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students and five-year commitment for scholarship students.

**Scholarships**

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of $250 to $400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

**General Eligibility**

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT
  - ACT: 22 verbal, 22 math (22 composite for Marine Corps)
  - SAT: 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and $350 and $400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semiannually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for three or two academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as “cross-town” students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced-standing status also are required to attend a four-to-six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents’ Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University; (414) 288-7076, or visit our website at www.marquette.edu/rotc/navy (http://www.marquette.edu/rotc/navy/).

**Social Work**

Study in the field of social work examines social problems from multiple perspectives and encourages change among individuals, families, groups, organizations and communities. Social work practitioners work in child welfare, gerontology, mental and physical health, and community leadership. This program partners with hundreds of agencies to prepare graduates with hands-on field experience.

**Programs**

- Applied Data Analysis Using SAS, Graduate Certificate (p. 1305)
- Applied Gerontology, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1307)
- Social Welfare, PhD (p. 1308)
- Social Work, BS (p. 1310)
- Social Work, MSW (p. 1312)
- Social Work, MSW/Criminal Justice, MS (p. 1315)
- Social Work, MSW/Public Health, MPH (p. 1316)
- Social Work, MSW/Social Welfare, PhD (p. 1318)
- Social Work, MSW/Women’s and Gender Studies, MA (p. 1321)
- Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1322)
Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Lisa Berger</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Ai Bo</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>New York University</td>
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<tr>
<td>Linda Britz</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Pretoria, South Africa</td>
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<tr>
<td>Michael Brondino</td>
<td>Associate Professor</td>
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<tr>
<td>Crystal D. Carter</td>
<td>Clinical Assistant Professor</td>
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<tr>
<td>Colleen Galambos</td>
<td>Helen Bader Endowed Chair in Applied Gerontology</td>
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<td>The Catholic University of America National Catholic School of Social Service</td>
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<tr>
<td>Jane Hereth</td>
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<td>Thomasina Jenkins</td>
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<tr>
<td>Jennifer Kahn-Pettigrew</td>
<td>Clinical Assistant Professor</td>
<td>MSW</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Melinda Kavanaugh</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Yura Lee</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
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<tr>
<td>Gwat-Yong Lie</td>
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<td>PhD</td>
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<tr>
<td>Margaret Mailet</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>Louisiana State University</td>
<td></td>
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<tr>
<td>Livy Malle</td>
<td>Senior Lecturer</td>
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<tr>
<td>Steve McMurtry</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Joshua Mersky</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<td></td>
</tr>
<tr>
<td>Laura Otto-Salaj</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Temple University</td>
<td></td>
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</tr>
<tr>
<td>David J. Pate Jr.</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td>✔</td>
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</tr>
<tr>
<td>Susan Rose</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Illinois-Chicago</td>
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<tr>
<td>Julie Schuppie</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Devin Thomas</td>
<td>Clinical Assistant Professor</td>
<td>MSW</td>
<td>Jane Addams College of Social Work</td>
<td></td>
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</tr>
<tr>
<td>James Dimitri Topitzes</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Jeanne Wagner</td>
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<td>MSW</td>
<td>Jane Addams College of Social Work</td>
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<td>Trina Salm Ward</td>
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<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Amy Watson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>

Students are required to take a total of 18 credits toward the completion of the certificate. The mandatory core courses in programming and regression analysis make up 12 credits (6 credits fixed, 6 credits flexible) and an additional 6 credits are to be taken as electives. The program’s curriculum stimulates interdisciplinary skill acquisition and research by requiring students to enroll in courses from at least two academic units. Students can choose courses from Business Administration, Business Management, Economics, Educational Psychology, Political Science, Public Health, Social Work, and Sociology to satisfy the certificate's credit requirements.

Post-baccalaureate students will be interested in this certificate program because it provides a valuable skill set without pursuing a full graduate degree. Graduate and post-graduate students will find this certificate program appealing as it complements many existing degree programs at UWM and should give graduates a competitive edge on the job market.

Applied Data Analysis Using SAS, Graduate Certificate

The Graduate Certificate in Applied Data Analysis Using SAS® is a multidisciplinary program that fosters knowledge and programmatic skills in data management and statistical analysis using SAS software. The certificate's curriculum is designed for students with diverse career goals, but at its core, it focuses on the job roles of SAS Programmer, Data Analyst, and Data Scientist. A person in one of these roles typically accesses and manages data, performs complex queries, and conducts and interprets statistical data analyses. Upon completion of the certificate program, students will not only earn the SAS-sponsored joint certificate from UWM, but they will also be prepared to take two globally recognized Programming Certification exams either through the SAS Institute or on-site at UWM:

- Base SAS Programming Certificate
- Advanced SAS Programming Certificate
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students must have earned a bachelor’s degree with a minimum cumulative grade point average (GPA) of 2.75 to be able to apply for the certificate program. Students who already hold a graduate degree must have earned that degree with a minimum cumulative GPA of 3.00 when applying for the certificate program.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 718</td>
<td>Introduction to SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 719</td>
<td>Advanced SAS Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Flexible Core
Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 714</td>
<td>Multivariate Techniques in Management Research</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>ECON 703</td>
<td>Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 710</td>
<td>Applied Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
<td>3</td>
</tr>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 707</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 961</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
<td>3</td>
</tr>
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</table>

Electives
Select two of the following: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
</tr>
</tbody>
</table>

Additional Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Transfer courses must have been completed within the last three years with grades of B or higher. Students must provide evidence that the transfer courses are substantially the same as the core or elective courses. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.
For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Applied Gerontology, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)

The Graduate Certificate in Applied Gerontology is an interdisciplinary program designed to provide students with the knowledge and skills they need to successfully pursue careers within aging services organizations, or to conduct academic research in the field of aging. The program focuses on the biological, psychological, social, and policy aspects of aging, and encourages students to link practice and research in order to improve the quality of life of older adults. The GCAG is intended for graduate degree-seeking students in any field, and for degreed professionals looking to advance or refocus their careers. Please contact Jennifer Kahn-Pettigrew, Coordinator for Education and Programming, at 414-229-6888 or kahnpet2@uwm.edu for more information.

Admission Requirements
Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool.apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students wishing to earn a Graduate Certificate in Applied Gerontology must complete 18 graduate credit hours. No student may complete all 18 credits within a single school or college.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 760</td>
<td>Processes of Aging</td>
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</table>

Choice Core
Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 547</td>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td></td>
</tr>
<tr>
<td>PSYCH 680</td>
<td>Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 685</td>
<td>Social Gerontology</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 791</td>
<td>Current Topics in Social Work: (Death and Dying – Aging section only)</td>
<td></td>
</tr>
<tr>
<td>THEATRE 699</td>
<td>Independent Study (Creativity in Health Settings (3 credits)</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 6 credits 1

Total Credits 18

1 Students will work with the Certificate Coordinator to approve the selection 6 credits from the remaining Choice Core classes and additional electives, including a “Practicum” in the student’s home department or area of choice.

Integrative Portfolio
Students must complete an Integrative Portfolio as a final project under the guidance of the Certificate Coordinator and an assigned advisor. This Portfolio includes papers/materials from core courses and an introduction and reflective conclusion that integrates the key concepts from the interdisciplinary coursework and identifies potential impact on their future practice in research or aging services.

Additional Requirements
Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

### Social Welfare, PhD

**Related Certificates**
- Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate/)
- Non-Profit Management (http://uwm.edu/graduateschool/nonprofit-management-certificate/)
- Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate/)
- Women's Studies (http://uwm.edu/graduateschool/womens-studies-certificate/)

**State of Wisconsin Credentials**
- School Social Work Certification (http://uwm.edu/socialwelfare/academics/school-social-work/)
- Substance Abuse Certification (http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac/)

### Overview

The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community partnerships. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:

1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.
6. Submit a sample of written work to the Social Welfare PhD Program that demonstrates: the applicant's knowledge of social work and/or criminal justice theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author.

The program will assign each PhD student a major professor. This assignment is based on congruence between the applicant's interests and the expertise of the major professor. In consultation with the director of the PhD program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member in criminal justice or social work agrees to serve as major professor.

Financial Assistance
Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first three years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus Office of Financial Aid.

Credits and Courses
A minimum degree of 43 graduate credits beyond the master’s degree are required, at least 36 of which must be earned in residence at UWM.

In consultation with the major professor and as soon as possible after admission, each student designs a program of study to gain the knowledge and skills appropriate to his/her educational goals. All programs of study must include the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 901</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>Select 11-12 credits in Specialization Seminars (see below)</td>
<td>11-12</td>
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</table>

Methods of Inquiry and Analysis

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 951</td>
<td>Quantitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 952</td>
<td>Qualitative Research Methods in Social Work</td>
<td>3</td>
</tr>
</tbody>
</table>

Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC WRK 961</td>
<td>Introduction to Statistical Methods</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
<td>3</td>
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</table>

Research Methods and Statistics Electives

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>SOC WRK 963</td>
<td>Measurement Methods and Related Multivariate Statistics</td>
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</tr>
<tr>
<td>SOC WRK 964</td>
<td>Advanced Statistical Methods</td>
<td>3</td>
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</table>

Doctoral Proseminar

<table>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar: (Research Ethics)</td>
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</tr>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar: (Grantwriting)</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar: (Teaching)</td>
<td>1</td>
</tr>
</tbody>
</table>

Teaching

1. Content in this area comprises a set of required courses in methods of social/behavioral research and statistics. Students are expected to enter the program with at least a basic background in both methods and statistics and may need to satisfy prerequisites before proceeding to required courses.

2. Two electives from inside or outside the HBSSW are required. Students may choose one or both of the above elective courses or one or two courses from an approved set of alternatives offered in other Schools or campuses. Approval must be secured from the major advisor prior to enrolling.

3. Requirements in this area are designed to provide students with specialized knowledge and skills needed for success in scholarly endeavors and teaching at the post-secondary level. With respect to classroom work, all students must complete the following three one-credit proseminars.

4. All students must complete one semester of work as a teaching assistant and one semester as a project or research assistant, usually in their second year. During the semester in which they serve as a teaching assistant, students must enroll for one credit in SOC WRK 999/CRM JST 999.

5. This independent study credit will be completed under the supervision of the faculty member to whom the student is assigned as an assistant. The product should be a project that will advance the student's skills in teaching, such as preparation of a guest lecture or other such task determined by the supervising faculty member.

6. These credits provide an opportunity for students to take content of interest within the HBSSW or in other schools on campus that offer graduate-level courses relevant to the student's educational goals. Elective options within the HBSSW include the completion of additional specialization seminars beyond the required total. Students may also complete this requirement by taking additional research methods or statistics courses within or outside the HBSSW, or they may take theory or basic-knowledge courses in other Schools that are at the graduate level and are approved by their advisor and the PhD program director.

Knowledge Building
The goals and objectives of the doctoral program reflect the Department's concern with urban social problems, social and economic equity and well-being, cultural diversity, and the empowerment of individuals, families, organizations, and communities to effect change. The program will prepare students to make significant contributions to social work education and the knowledge base of the profession.

The curriculum includes four areas of specialization:

- Applied Behavioral Health
- Applied Gerontology
- Criminal Justice
- Family and Child Welfare

Each student must select at least one of these areas in which to concentrate. In consultation with the major professor, a student may also choose to develop expertise that spans more than one area.

Content in these four specialization areas is presented in the form of specialization seminars. All students must take at least three specialization seminars within the program and at least one relevant
course external to the HBSSW; the external course must be from a list of courses approved for this purpose or a student’s unique request approved by the doctoral program committee. At least two courses, including one internal and one external course, must be in the student’s area of specialization, and at least one course internal to the HBSSW must be in an area other than the student’s primary specialization. All specialization courses outside the HBSSW must be approved by the student’s major professor prior to enrollment.

**Examples of Specialization Seminars**

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 931</td>
<td>Theories of Poverty and Social Welfare Policy (Family and Child Welfare specialization)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 932</td>
<td>Theories and Research on Behavior Change (Addiction and Behavioral Health specialization)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 945</td>
<td>Family and Long-Term Care Across the Life Course (Applied Gerontology specialization)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 791</td>
<td>Current Topics in Social Work: (Family and Child Welfare Specialization)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Additional Requirements**

**Residence**

Students must meet minimum Graduate School residency requirements.

**Preliminary Examination**

All students must pass a preliminary examination subsequent to successfully completing all required coursework and prior to being admitted to doctoral candidacy. The examination assesses students’ ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

An Application for the Doctoral Preliminary Examination must be completed by the student and signed and submitted to the PhD Program Committee by the major professor six weeks prior to the first examination. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. Complete policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare PhD program handbook.

**Dissertation Proposal Defense**

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

**Dissertation**

Students who have passed the Preliminary Examination and have submitted a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social work. It should be of a caliber that warrants publication in respected journals in the field.

**Dissertation Defense**

As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student’s area of study. This requirement may not be completed until all other degree requirements are satisfied.

**Time Limit**

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Social Work, BS**

The bachelor’s degree in social work is accredited by the Council on Social Work Education. Its primary objective is to prepare students for beginning generalist social work practice.

The program prepares students for potential employment in both public (federal, state, and county) and private social service agencies. Students are trained to work and affect change among individuals, families, groups, organizations and communities. The program helps prepare students to engage in critical thinking and actively apply research to practice, policy, advocacy, education, and leadership. A sample of career possibilities includes caseworker, psychiatric social worker, youth counselor, and alcohol/drug counselor.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Curriculum Requirements (p. 1310)</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>Major Requirements (p. 1311)</td>
<td>55</td>
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<tr>
<td></td>
<td>General Electives (p. 1311)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

**General Curriculum Requirements**

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (http://www4.uwm.edu/schedule/). The UWM General Education Requirements (p. 29) apply to all students who were not enrolled in an accredited institution prior to 1986.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.</td>
<td></td>
</tr>
<tr>
<td>Liberal Arts Foundation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability Arts</td>
<td></td>
</tr>
</tbody>
</table>
Select 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts 3

**Humanities**

Commun 103 Public Speaking 3

Select 9 credits of General Education-approved humanities courses 9

**Natural Science**

Select 6 credits of General Education-approved natural science courses to include a lab or field course 6

**Social Science**

Select 15 credits of General Education-approved social science courses 15

**Total Credits** 36

**Major Requirements**

The undergraduate social work major includes a pre-professional component. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

Students must complete at least 120 credits to obtain the degree. The major in Social Work requires a minimum of 55 credits in Social Work or Helen Bader School of Social Welfare courses (students can take courses in criminal justice and have them count toward the major as elective credit). The Department requires that students attain at least a 2.5 cumulative GPA, including transfer credits, in order to advance in the major. In addition, students must attain a 2.0 cumulative GPA in order to graduate from UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 100</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 250</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 260</td>
<td>Case Management in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 270</td>
<td>Advocacy and Empowerment</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 306</td>
<td>Introduction to Social Welfare Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 308</td>
<td>Social Work Values and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 310</td>
<td>Social Work Practice I: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 410</td>
<td>Social Work Practice II: Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 421</td>
<td>Field Education &amp; Integrated Field Seminar I</td>
<td>5</td>
</tr>
<tr>
<td>SOC WRK 422</td>
<td>Field Education &amp; Integrated Field Seminar II</td>
<td>5</td>
</tr>
<tr>
<td>SOC WRK 427</td>
<td>Social Work Practice III: Communities and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social Work Electives**

Select 9 credits in SOC WRK or CRM JST courses 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 100</td>
<td>Introduction to College Writing and Reading</td>
<td>4</td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Foreign Language credits**

**Total Credits** 29

Credits earned in HONORS 687 or HONORS 689 will not count towards the major.

**Fieldwork**

The field education sequence required for social work majors consists of two semesters of placement, beginning as early as the junior year. A total of 256 hours in the field is required each of the two semesters. The field courses are taken concurrently with the practice courses. Students are required to maintain a grade of B or better in each social work practice and field course. When a student does not, the student’s academic progress is reviewed by the chair of the Social Work Department. In certain cases, the student may be referred to the Faculty Review Panel and may not be allowed to continue in the major.

For further information about fieldwork, consult the Field Staff Office, Enderis Hall, Room 1075, (414) 229-6526.

**Degree Requirements**

To receive the bachelor’s degree with a social work major, the student must have an overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits. At least 50% of the credits in the social work major must be earned at UWM. Social work students must complete at least one semester of field placement at UWM. Students must earn their last 30 credits at UWM.

**Advancing to the Major**

In addition to the normal University admission requirements, students will submit an application to be advanced into the Social Work major. Students who have not yet been advanced to the Social Work major are still able to take a sequence of Social Work courses. Students must...
formally be advanced into the Social Work major prior to beginning field placement. The requirements to apply to the Social Work major are:

- Completion of 48+ credits
- Completion of Social Work 100, 250, and 306
- Cumulative GPA of 2.5 or higher, including all transfer work.

All of these requirements must be satisfied at the time a student applies. Applications are found online and an advisor should be consulted for more information.

**Undergraduate Academic Advising**

The Office of Student Services in the Helen Bader School of Social Welfare, located in Enderis Hall on the 10th floor, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student’s interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.

**Transfer Students**

The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information. Students may request an unofficial credit evaluation (https://uwm.edu/socialwelfare/transfer/).

**Honors in the Major**

Honors in the Major are granted to students who have earned a GPA of 3.500 or above in major courses, including social science credits completed at UWM.

**Honors in the School of Social Welfare**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 37) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Office of Student Services  
Enderis Hall, 1110 2400 E Hartford Ave.  
Phone: 414-229-4852  
hbssw@uwm.edu

**Social Work, MSW**

**Related Certificates**

- Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate/)
- Non-Profit Management (http://uwm.edu/graduateschool/nonprofit-management-certificate/)
- Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate/)
- Women’s Studies (http://uwm.edu/graduateschool/womens-studies-certificate/)

**State of Wisconsin Credentials**

- School Social Work Certification (http://uwm.edu/socialwelfare/academics/school-social-work/)
- Substance Abuse Certification (http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac/)

**Overview**

The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:

1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.
HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

Admission

Application must be made to both the Graduate School and the MSW program. Program application materials are available for the Fall semester only. All applications must be completed and submitted on or before January 2. Applicants must meet Graduate School and program requirements for admission, including:

1. Undergraduate grade point average of 2.75 or better.
2. Completion of at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).
3. Submission of a program application which includes three letters of recommendation, a narrative statement, and a comprehensive professional resume.

Please see complete requirements and instructions for applying on the MSW program web page (http://uw.edu/socialwelfare/academics/msw-in-social-work/) before starting an application.

Credits and Courses

The MSW program requires a minimum of 34 graduate credits for students admitted to the Advanced Curriculum. Students may be required to complete up to 22 credits to fulfill the Professional Foundation prior to beginning the Advanced Curriculum. The minimum 34 Advanced Curriculum credit requirements are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV ¹</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Option 1:

SOC WRK 711  Direct Social Work Practice I
SOC WRK 811  Direct Social Work Practice II ²
Select one additional practice course

Option 2:

SOC WRK 713  Community Organization, Planning and Human Service Administration I
SOC WRK 813  Financial Management and Planning in Human Services
Select one additional practice course

Exemptions

Students who have, within the 5 years preceding admission, completed coursework which substantially duplicates Professional Foundation courses may apply to the Chair of the Social Work Department for an exemption from the relevant courses. Exemption examinations are also offered on a scheduled basis for these courses. Exemption of the field experience (SOC WRK 721) may be permitted under special employment experience circumstances and only by permission of the Director of Field Programs. Students interested in securing an exemption should request course exemption forms upon notification of admission to the program.

All requests for exemptions must be made at the time of initial enrollment. Exemption requests will not be accepted following the end of the first semester of coursework.
Additional Requirements

Specializations
Upon completion of the Professional Foundation requirements—through coursework or exemption—students enter into the Advanced Curriculum and choose one of five specialized concentrations:

- Physical Health
- Behavioral Health and Mental Health
- Gerontology
- Children and Families
- Community and Organizational Leadership

With careful faculty advising, students are able to develop a course of study that builds upon their individualized interests, experiences, and strengths.

Specialization Descriptions

Physical Health
This concentration is designed to prepare students for advanced and clinical practice in a variety of health care settings. Students in the health concentration are prepared to address the multifaceted world of health care through coursework designed to expose them to issues of chronic health, health care delivery, health policy, and the social determinates of health across the life course. Health concentration students are trained in case management and assessment skills, and the role of social work in multidisciplinary health care teams. Students develop a solid understanding of how access to health systems, policies, and programs impact health. Students who graduate with a concentration in health are prepared for practice in a variety of settings from hospitals and primary care clinics, to community health settings and long term care.

Behavioral Health and Mental Health
This concentration is designed to prepare students for advanced social work practice involving the delivery of mental health and addictions services to individuals, families, small groups, and the community. Students are exposed to issues, approaches, and technologies for application in prevention, treatment, administration, and policy. These are related to risks and problems with: alcohol and other drugs, mental health and mental illness, intimate partner violence, community violence, and other behavioral health concerns across the lifespan. Coursework provides students with knowledge, values, and skills to prepare them for professional practice in a variety of private and public settings related to mental health, addictions, and substance abuse.

Gerontology
This concentration is designed to aid students in understanding the complexity of the aging process from the perspective of the individual, family, society and social policy. The concentration will cover the physical, psychological and social processes of aging including family roles and responsibilities, cultural diversity, social support networks and the use of health and social services. Major developmental issues during the second half of life will be presented and interventions to facilitate adaptation to developmental change will be described. Coursework will enable students to: understand late-life mental disorders; develop assessment skills; formulate, implement and evaluate treatment plans; and become aware of issues related to age and ageism as they influence social work practice.

Children and Families
The social work profession has a long history of commitment to ensuring the well-being of children. Furthermore, professionals recognize the family system as being significant in the lives of children. The family system, in its various forms, represents a significant social institution, essential to communities and to society as a whole. This concentration focuses on the study of family systems, child and family welfare, and interventions to enhance the lives of children and families. Students in this concentration develop the advanced practice knowledge and skills necessary to provide services to children and families in a wide variety of settings.

Community and Organizational Leadership
Often described as “macro” practice, this concentration is for students who are interested in social change with organizations and communities. Social work within this concentration is about creating social and policy change, strengthening community and organizational systems, developing leadership skills, and addressing social injustices. Students will prepare for roles in leadership and administration, program development, planning, policy, and community practice.

Double Concentration
Students who are interested in gaining knowledge and skills relevant to both macro practice techniques and a second “direct practice” concentration may choose a “Double Concentration” sequence. This sequence is a combination of Community and Organizational Leadership and a second concentration (Physical Health, Behavioral Health and Mental Health, Gerontology, or Children and Families), and may require up to an additional semester of coursework. Four semesters of Field Placement are required with two semesters of that Field experience being within a direct practice field setting and two semesters of a Community and Organizational Leadership-based field placement. Students who have interests that range from direct social work practice to more leadership social work roles will benefit from this option.

Practice Method Areas

Direct Practice
By providing advanced-level knowledge and skills to address the changing impact of interpersonal and social problems, this specialty prepares students who are interested in using direct practice to help individuals, families, and groups.

Macro Practice
This method is for students who are interested in planned change with organizations and communities. Students will prepare for roles in planning, policy, administration, program development and community practice.

Double Methods
Students who are interested in gaining knowledge and skills relevant to both Direct Practice and Macro Practice techniques and settings may choose a “Double Methods” sequence. This combination of methods tracks may require up to an additional semester of coursework. Four semesters of Field Placement are required with two semesters of Direct Practice experience and two semesters of Macro Practice experience. Students who have interests that range from direct social work practice to more administrative social work roles will benefit from this option.

Faculty Advisor
All students will be assigned a faculty member to advise and supervise their studies as specified in Graduate School regulations. Students should develop, in consultation with the advisor, a written plan of study, including selection of the specialized concentration. Students may elect to change advisor contingent upon the new advisor’s appropriateness to the area of specialized concentration, the advisor’s acceptance of additional advisees, and formal notification to the MSW specialist in the MSW program.
**Time Limit**
Students admitted directly into the Advanced Curriculum must complete all degree requirements within seven years of initial enrollment; students required to complete any portion of the Professional Foundation must complete all degree requirements within seven years of initial enrollment.

**Social Work, MSW/Criminal Justice, MS**
Both departments in the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice, or social work with a focus on criminal justice (e.g., corrections, juvenile justice, probation and parole, etc).

**Admission Requirements**

**Application Deadlines**
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

**Admission**
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MSW program in the Helen Bader School of Social Welfare.

**Credits and Courses**
Students accepted into this MS/MSW program complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Criminological Perspectives (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research (G)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 12 additional credit hours of courses within the criminal justice program</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 12 credit hours of Social Work courses with the consent of the student’s advisor</td>
<td>12</td>
</tr>
</tbody>
</table>

Students must complete the requirements of the Essay Option or Non-Essay Option as the degree capstone

**Social Work Foundation Curriculum**

<table>
<thead>
<tr>
<th>SOC WRK 604</th>
<th>Social Systems and Social Work Practice (U/G)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural diversity and Social Work (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 708</td>
<td>Social Work Methods I: Individuals and Families (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities (G)</td>
<td>2</td>
</tr>
</tbody>
</table>

The capstone requirement is satisfied by SOC WRK 822.
Requires sections to be selected from within the specialized concentration area.
Electives selected from among successfully completed CJ courses in consultation with faculty advisor.

**Total Credits for Coordinated Degree: 71 (without a BSW) or 49 (with a BSW).**

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. Degrees will be awarded simultaneously.

A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Additional Requirements**

**Time Limit**
Students in the coordinated MS/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
Social Work, MSW/Public Health, MPH

The Zilber School of Public Health and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical, research-based policy and practice knowledge and accompanying skill sets, to address health inequities and inequalities and respond to the health and well-being needs of communities at the local, regional, national and international arenas.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission
Students are admitted to each graduate program separately and based on admission requirements which are consistent with those specified by the UWM Graduate School, the MPH program in the Zilber School of Public Health, and the MSW program of the Department of Social Work.

Credits and Courses

Students accepted into this MPH/MSW program complete the following courses:

### Master of Public Health (MPH)

#### Required Common Core Courses (24 Credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 708</td>
<td>Health Systems and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 790</td>
<td>Field Experience in Public Health (4 cr)</td>
<td>4</td>
</tr>
<tr>
<td>PH 800</td>
<td>Capstone in Public Health (2 cr)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 24

Students specialize in one of five tracks of study:
- Biostatistics *
- Community and Behavioral Health Promotion
- Environmental Health Sciences
- Epidemiology *
- Public Health Policy and Administration *

* These tracks are currently not available in the Coordinated MPH/MSW

#### Biostatistics Track (22 credits)

In addition to the common MPH core classes, students complete:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 710</td>
<td>Seminar in Biostatistics and Bioinformatics (1 cr)</td>
<td>13</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td></td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
<td></td>
</tr>
<tr>
<td>PH 713</td>
<td>Analyzing Observational and Experimental Data</td>
<td></td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R</td>
<td></td>
</tr>
</tbody>
</table>

“S”electives – Choose three (9 credits minimum)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 707</td>
<td>Introduction to Statistical Computing</td>
<td></td>
</tr>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td></td>
</tr>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td></td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 720</td>
<td>Special Topics in Biostatistics:</td>
<td></td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Bioinformatics</td>
<td></td>
</tr>
<tr>
<td>PH 723</td>
<td>Design, Conduct and Analysis of Clinical Trials</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 22

#### Community and Behavioral Health Promotion Track (24 credits)

In addition to the common MPH core classes, students complete:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>PH 831</td>
<td>Community Engagement and Participatory Research Approaches in Public Health</td>
<td></td>
</tr>
</tbody>
</table>

Electives 3

Total Credits 24

#### Environmental Health Sciences Track (23 Credits)

In addition to the common MPH core classes, students complete:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td></td>
</tr>
<tr>
<td>PH 743</td>
<td>Environmental Risk Assessment</td>
<td></td>
</tr>
<tr>
<td>PH 750</td>
<td>Seminar in Environmental Health Sciences (1 credit x 2)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 24
### Environmental Epidemiology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 790</td>
<td>Special Topics:</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 880</td>
<td>Urban Sustainability</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 880</td>
<td>Urban Sustainability</td>
<td></td>
</tr>
<tr>
<td>GEOG 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

### Chemical Environment “S” elective- Choose one

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 741</td>
<td>Environmental Public Health Microbiology</td>
<td></td>
</tr>
<tr>
<td>PH 744</td>
<td>Environmental Toxicology</td>
<td></td>
</tr>
<tr>
<td>PH 745</td>
<td>Developmental Toxicology</td>
<td></td>
</tr>
</tbody>
</table>

### Biological Environment “S” elective- Choose one

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 741</td>
<td>Environmental Public Health Microbiology</td>
<td></td>
</tr>
<tr>
<td>PH 745</td>
<td>Developmental Toxicology</td>
<td></td>
</tr>
<tr>
<td>PH 775</td>
<td>Mechanisms of Infectious Disease</td>
<td></td>
</tr>
</tbody>
</table>

### Elective – Choose one additional course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credits</td>
<td>23</td>
</tr>
</tbody>
</table>

### Epidemiology Track (24 credits)

In addition to the common MPH core classes, students complete:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credits</td>
<td>24</td>
</tr>
</tbody>
</table>

### Public Health Policy and Administration Track (24 credits)

In addition to the common MPH core classes, students complete:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credits</td>
<td>24</td>
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</tbody>
</table>

### Master of Social Work (MSW)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total MPH Degree Credits Required: 46-48 Credit Hours</td>
<td></td>
</tr>
</tbody>
</table>

### Comprehensive Examination

Not Required

## FallOf2020 1317
SOC WRK 711 | Direct Social Work Practice I
SOC WRK 713 | Community Organization, Planning and Human Service Administration I
SOC WRK 811 | Direct Social Work Practice II
SOC WRK 915 | Human Services Administration II
SOC WRK 820 | Seminar in Social Work Practice:

**Field Courses** 11
SOC WRK 722 | Field Instruction II
SOC WRK 821 | Field Instruction III
SOC WRK 822 | Field Instruction IV

**Human Behavior Content (Choose one)** 3
SOC WRK 753 | Adult Psychopathology
SOC WRK 771 | Development of the Family Over the Life Span
SOC WRK 685 | Social Gerontology
SOC WRK 774 | Trauma Counseling I: Theory and Research

**Research** 5
SOC WRK 793 | Evaluation of Practice
PH 728 | Program Evaluation in Public Health

**Social Policy** 2-3
SOC WRK 851 | Social Issue and Policy Analysis:

**Electives selected from among successfully completed MPH courses** 6

**Total Credits** 55-56

**Time Limit**
Students in the coordinated MPH/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

**Social Work, MSW/Social Welfare, PhD**

**Related Certificates**
- Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate/)
- Non-Profit Management (http://uwm.edu/graduateschool/nonprofit-management-certificate/)
- Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate/)
- Women’s Studies (http://uwm.edu/graduateschool/womens-studies-certificate/)

**State of Wisconsin Credentials**
- School Social Work Certification (http://uwm.edu/socialwelfare/academics/school-social-work/)
- Substance Abuse Certification (http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac/)

**Overview**
The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:

1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.
Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uw.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uw.edu/onestop/dates-and-deadlines/).

Admission
Relevant application materials must be submitted to both the Graduate School and HBSSW and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed.

Students who apply and are accepted to the joint MSW/PhD program will be able to earn both the Master of Social Work and Doctor of Philosophy in Social Welfare and will not be required to apply to the PhD program after earning the MSW degree, assuming their progress is satisfactory. Applicants who are not offered admission to the joint program will still be considered for admission into the MSW-only program.

All applicants must meet Graduate School requirements plus the following HBSSW requirements:

1. Have an undergraduate grade point average of 2.75 or better.
2. Have completed at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).
3. Indicate the following in the Personal Statement section of the Graduate School application form:
   • Which of the program's four areas of specialization (Applied Behavioral Health, Applied Gerontology, Criminal Justice, or Family and Child Welfare) they wish to pursue.
   • Their reasons for seeking a doctoral degree in social welfare.
   • Their goals as future scholars.
   • Topic or issue in the field that they consider to be particularly challenging and worthy of study.
4. In materials submitted to the HBSSW, applicants must:
   • Provide a current copy of a professional résumé or curriculum vitae. This should contain information on:
     • All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
     • All employment by the applicant in social work or criminal justice and related areas, including dates and employing organizations.
     • Employment unrelated to social work or criminal justice within the past five years.
   • Information on any past or current professional licenses held.
5. Submit scores from within the past five years on the Graduate Record Examination (GRE) (http://uw.edu/graduateschool/admission/#gre) General Test.
6. Submit three letters of recommendation from persons familiar with the applicant's achievements and academic potential, including at least one current or former academic instructor.
7. Submit a sample of written work that demonstrates: the applicant's knowledge of social science theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author, or if it is jointly authored should indicate which sections were primarily done by the applicant.

Advisement
The HBSSW will assign each MSW/PhD student a major professor. This assignment is based on congruence between the applicant's interests and the expertise of the major professor. In consultation with the director of the PhD program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member in social welfare agrees to serve as major professor.

Financial Assistance
Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first four years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus's Office of Financial Aid.

Credits and Courses

MSW Requirements
The MSW portion of the joint curriculum requires a minimum of 22 graduate credits for students admitted to the Advanced Curriculum. Another 12 credits normally required in the Advanced Curriculum will be replaced by the same number of PhD-level credits. Students admitted into the joint curriculum who have not earned a bachelor's degree from an accredited social work program within the past five years are required to complete 22 credits in the Professional Foundation prior to beginning courses in the Advanced Curriculum.

Professional Foundation
The purpose of the Professional Foundation is to orient students to the profession and to provide a knowledge, values and skills base for later course. Credits in the Professional Foundation are not included in the 22 Advanced Curriculum credits required for completion of the MSW degree, nor do they apply to the required 12 Ph.D-level credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 708</td>
<td>Social Work Methods I: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 750</td>
<td>Social Welfare Policy Development and Implementation</td>
<td>2</td>
</tr>
</tbody>
</table>

MSW-level Advanced Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 711</td>
<td>Direct Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>or SOC WRK 713</td>
<td>Community Organization, Planning and Human Service Administration I</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 811</td>
<td>Direct Social Work Practice II</td>
<td>3</td>
</tr>
</tbody>
</table>
SOC WRK 820  Seminar in Social Work Practice  2
SOC WRK 821  Field Instruction III  4
SOC WRK 822  Field Instruction IV  4

Total Credits  22

MSW courses in the Advanced Curriculum to be replaced by PhD-level courses are:

- SOC WRK 793 replaced by SOC WRK 961
- SOC WRK 794 replaced by SOC WRK 951 or SOC WRK 952
- SOC WRK 851 (subtitled) replaced by SOC WRK 931 or SOC WRK 945
- SOC WRK 791 replaced by SOC WRK 901 or SOC WRK 932
- SOC WRK 791 replaced by SOC WRK 963 or doctoral elective

Exemptions
Students who have, within the 5 years preceding admission, completed coursework which substantially duplicates MSW Professional Foundation courses may apply to the Chair of the Social Work Department for an exemption from the relevant courses. Exemption examinations are also offered on a scheduled basis for these courses. Exemption of the field experience (SOC WRK 721) may be authorized by the Director of Field Programs for students having sufficient supervised employment experience. Students interested in securing an exemption should request course exemption forms upon notification of admission to the program.

All requests for exemptions must be made at the time of initial enrollment. Exemption requests will not be accepted following the end of the first semester of coursework.

PhD Requirements
A minimum of 39 credits of PhD-level coursework is required. At least 33 of these must be earned in residence at UWM. Required courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 901</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialization Seminars
Select 9 credits (3 from area of specialization) Examples include:

- SOC WRK 931  Theories of Poverty and Social Welfare Policy  9
- SOC WRK 932  Theories and Research on Behavior Change
- SOC WRK 945  Family and Long-Term Care Across the Life Course
- SOC WRK 791  Current Topics in Social Work: (Family and Child Welfare Specialization)

Research Methods
- SOC WRK 951  Quantitative Research Methods  3
- SOC WRK 952  Qualitative Research Methods in Social Work  3

Statistics
- SOC WRK 961  Introduction to Statistical Methods  4
- SOC WRK 962  Applied Multiple Regression Analysis  3
- SOC WRK 963  Measurement Methods and Related Multivariate Statistics  3
- SOC WRK 964  Advanced Statistical Methods  3

Proseminars and Independent Study
- SOC WRK 991  Doctoral Proseminar: (Research Ethics)  1
- SOC WRK 991  Doctoral Proseminar: (Grantwriting)  1
- SOC WRK 991  Doctoral Proseminar: (Teaching)  1
- SOC WRK/CRM JST 999  Independent Reading in Social Work  1-3

Electives
Select two approved external doctoral-level courses in area of specialization (2-3 cr. each)  4-6

Total Credits  39-43

Additional Requirements

Preliminary Examination
All students must pass a preliminary examination subsequent to successfully completing all required coursework and prior to being admitted to doctoral candidacy. The examination assesses students’ ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

An Application for the Doctoral Preliminary Examination (http://uwm.edu/graduateschool/doctoral-requirements/) must be completed by the student and submitted to the PhD Program Committee by the major professor six weeks prior to the first examination. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. Complete policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare PhD program handbook.

Dissertation Proposal Defense
All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

Dissertation
Students who have passed the Preliminary Examination and have submitted a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social work or criminal justice. It should be of a caliber that warrants publication in respected journals in the field.

Dissertation Defense
As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student’s area of study. This requirement may not be completed until all other degree requirements are satisfied.

Residence
Students must meet minimum Graduate School residency requirements.

Time Limit
It is expected that most students will complete all degree requirements within seven years of initial enrollment in the joint MSW/PhD program. All
requirements MUST be completed within ten years from the date of initial enrollment.

Social Work, MSW/Women's and Gender Studies, MA

The College of Letters and Science and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice and the field of feminist research and scholarship. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Admission

Students are admitted to both graduate programs separately, and admission requirements (http://uwm.edu/graduateschool/admission/) are consistent with those specified by the UWM Graduate School, the MA in Women's and Gender Studies (p. 1204) program in the College of Letter and Science, and the MSW in Social Work (http://uwm.edu/graduateschool/social-work/) of the Helen Bader School of Social Welfare.

Credit and Courses

The MA in Women's and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women's and Gender Studies courses. For the coordinated WGS MA/MSW degree program, however, students can substitute 6 credits in Social Work courses for 6 credits of WGS courses. Similarly, the Social Work master's program will accept 6 credits of WGS coursework to satisfy the 6 required elective credits for the MSW degree. Because the MSW degree has a distinction in the number of credits required depending on bachelor's degree type, the total number of credits required to complete the Coordinated WGS/MSW program will range from 52 credits (24 from WGS and 28 from MSW when holding a bachelor's in social work) to 74 credits (24 from WGS and 50 from MSW when a bachelor's degree is from another discipline).

Women's and Gender Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Transnational Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Feminist Epistemologies and Research Practices</td>
<td>3</td>
</tr>
<tr>
<td>Select one G or U/G WGS course</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 9 elective credits in WGS or WGS cross-listed courses (not SOC WRK), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).

Total Credits: 24

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, and WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

Master of Social Work

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC 604</td>
<td>Social Systems and Social Work Practice (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 662</td>
<td>Methods of Social Welfare Research (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 665</td>
<td>Cultural Diversity and Social Work (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 705</td>
<td>Individual Behavior and Social Welfare (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 708</td>
<td>Social Work Methods I: Individuals and Families (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities (G)</td>
<td>2</td>
</tr>
<tr>
<td>SOC 721</td>
<td>Field Instruction I (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 750</td>
<td>Social Welfare Policy Development and Implementation (G)</td>
<td>2</td>
</tr>
</tbody>
</table>

Social Work Advanced Practice Curriculum

Practice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 711</td>
<td>Direct Social Work Practice I (G)</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 713</td>
<td>Community Organization, Planning and Human Service Administration I</td>
<td></td>
</tr>
<tr>
<td>SOC 811</td>
<td>Direct Social Work Practice II: (Subtitled) (G)</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 915</td>
<td>Human Services Administration II</td>
<td></td>
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</tbody>
</table>

Select one additional Social Work practice course 2

Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 722</td>
<td>Field Instruction II (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 821</td>
<td>Field Instruction III (G)</td>
<td>4</td>
</tr>
<tr>
<td>SOC 822</td>
<td>Field Instruction IV (G)</td>
<td>4</td>
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</table>

Human Behavior Content

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC 685</td>
<td>Social Gerontology (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 753</td>
<td>Adult Psychopathology (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 771</td>
<td>Development of the Family Over the Life Span (G)</td>
<td></td>
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</tbody>
</table>

Research

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 793</td>
<td>Evaluation of Practice (G)</td>
<td>2</td>
</tr>
<tr>
<td>SOC 794</td>
<td>Evaluation of Programs (G)</td>
<td>2</td>
</tr>
</tbody>
</table>

Social Policy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 851</td>
<td>Social Issue and Policy Analysis: (Subtitled) (G)</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Electives
Select 6 credits from Women’s and Gender Studies courses in consultation with faculty advisor

Total Credits 50-51

Minimum Total Credits for Coordinated Program: 52 (for those admitted to the MSW Social Work Advanced Curriculum).

For students without a social work baccalaureate or otherwise needing the Foundation Coursework, the total credits will sum to 74.

Additional Requirements

Time Limit
Students in the coordinated MA/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

Admission Requirements

Application Deadlines
Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu/).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

Credits and Courses
All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

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<tr>
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Electives
Select 9 elective credits (see Potential Electives list below) 9

Recommended Field Work
Select 3-6 credits from the following:

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<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
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Total Credits 18-21

1 Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

Potential Electives

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<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
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### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

#### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.
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Actuarial Science (ACTSCI)

ACTSCI 290 Introduction to Actuarial Science
3 cr. Undergraduate.
Overview of the actuarial profession, financial risks, and types of insurance products; risk components; and risk evaluation methods.
Prerequisites: Satisfaction of Quantitative Literacy Part A GER.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 391 Investment Mathematics I
4 cr. Undergraduate.
Examination of annuities, loans, bonds, portfolio immunization, and interest rate swaps.
Prerequisites: jr st; grade of C or better in MATH 232(P).
Course Rules: Counts as a repeat of MATH 311.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 490 Introduction to Actuarial Practice
1 cr. Undergraduate.
Professional topics such as healthcare, pensions, life insurance, property and casualty, reinsurance, and regulation.
Prerequisites: ACTSCI 290(P).
Course Rules: May be retaken for cr once. Counts as repeat of MTHSTAT 591.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 491 Actuarial Workshop I
1 cr. Undergraduate.
Fundamental interest theory tools integrated with economic and financial concepts; financial mathematics; financial instruments; calculating present and accumulated values for various streams of cash flow.
Prerequisites: C or better in ACTSCI 391(P) or consent of instructor.
Course Rules: Counts as a repeat of MTHSTAT 593.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 492 Actuarial Workshop II
1 cr. Undergraduate.
Fundamental probability tools for quantitatively assessing risk integrated with economic and financial concepts; application of tools to actuarial problems; introduction to insurance and risk management for various streams of cash flow.
Prerequisites: C or better in MTHSTAT 361(P) or consent of instructor.
Course Rules: Counts as a repeat of MTHSTAT 592.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 590 Actuarial Internship
1-6 cr. Undergraduate.
Apply principles and techniques of actuarial science in business, governmental and other appropriate settings.
Prerequisites: soph st; 6 cr 300-level or above in ACTSCI or MTHSTAT; GPA in ACTSCI and MTHSTAT courses at least 2.5.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 591 Investment Mathematics II
3 cr. Undergraduate.
Mathematical models in finance and economics, corporate finance.
Prerequisites: jr st; MTHSTAT 361(P); ACTSCI 391(P).
Course Rules: Counts as repeat of MTHSTAT 692.
Last Taught: Fall 2019, Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 593 Actuarial Models I
3 cr. Undergraduate.
Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.
Prerequisites: jr st; ACTSCI 391(P); MTHSTAT 361(P); MTHSTAT 362(C).
Course Rules: Counts as a repeat of MTHSTAT 691.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 594 Actuarial Models II
3 cr. Undergraduate.
Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.
Prerequisites: ACTSCI 593(P); MTHSTAT 362(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 596 Actuarial Statistics I
3 cr. Undergraduate.
Loss models for short term insurance and their statistical fitting.
Prerequisites: jr st; MATH 234(P); MTHSTAT 362(P).
Course Rules: Counts as a repeat of MTHSTAT 596.
Last Taught: Fall 2019, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 597 Actuarial Statistics II
3 cr. Undergraduate.
Credibility theory, ratemaking, and reserving.
Prerequisites: jr st; MATH 234(P); MTHSTAT 362(P).
Course Rules: Counts as a repeat of MTHSTAT 597.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 599 Capstone Experience
1 cr. Undergraduate.
Independent research on current financial and insurance topics that are not covered in regular actuarial courses.
Prerequisites: senior standing.
Course Rules: May be retaken for cr once.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 790 Actuarial Internship
1-6 cr. Graduate.
Apply principles and techniques of actuarial science in business, governmental and other appropriate settings.
Prerequisites: graduate standing.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 791 Investment Mathematics II
3 cr. Graduate.
Mathematical models in finance and economics, corporate finance.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/
ACTSCI 793 Actuarial Models I
3 cr. Graduate.
Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 794 Actuarial Models II
3 cr. Graduate.
Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.
Prerequisites: grad st; ACTSCI 593(P); MTHSTAT 362(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 796 Actuarial Statistics I
3 cr. Graduate.
Loss models for short term insurance and their statistical fitting.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 797 Actuarial Statistics II
3 cr. Graduate.
Credibility theory, ratemaking and reserving.
Prerequisites: graduate standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 891 Actuarial Risk Theory
3 cr. Graduate.
Risk models; premium principles; reinsurance contracts; ruin theory; ordering of risks; bonus-malus systems; IBNR techniques.
Prerequisites: grad st; MATH 571(P) & ACTSCI 596(P), or consent of instructor.
Course Rules: Previously MTHSTAT 795.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ACTSCI 895 Topics in Actuarial Science:
3 cr. Graduate.
Advanced topics in actuarial science.
Prerequisites: graduate standing; 6 credits of 700 level ACTSCI coursework.
Course Rules: Repeatable to 9 credits max. Counts as a repeat of MTHSTAT 896 with a similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

Administrative Leadership (AD LDSP)

AD LDSP 297 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 507G Introduction to Group Leadership
3 cr. Undergraduate/Graduate.
Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 507 Introduction to Group Leadership
3 cr. Undergraduate/Graduate.
Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 517 Introduction to Adult Education Practice
3 cr. Undergraduate/Graduate.
Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs.
Prerequisites: jr st.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 517G Introduction to Adult Education Practice
3 cr. Undergraduate/Graduate.
Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs.
Prerequisites: jr st.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 537 Leadership and Management of Volunteer Programs
3 cr. Undergraduate/Graduate.
Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 537G Leadership and Management of Volunteer Programs  
3 cr. Undergraduate/Graduate.  
Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2018, Spring 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 547 The Educational Dimensions of Practice with Older Adults  
3 cr. Undergraduate/Graduate.  
Current problems, issues and research relating to the development and organization of educational programs for older adults.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2019, Spring 2015.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 547G The Educational Dimensions of Practice with Older Adults  
3 cr. Undergraduate/Graduate.  
Current problems, issues and research relating to the development and organization of educational programs for older adults.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2019, Spring 2015.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 557 Foundations and Philosophy of WTCS in Wisconsin  
3 cr. Undergraduate/Graduate.  
History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin.  
**Prerequisites:** jr st or vocational teachers or cons instr.  
**Last Taught:** Spring 2014, Spring 2012.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 557G Foundations and Philosophy of WTCS in Wisconsin  
3 cr. Undergraduate/Graduate.  
History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin.  
**Prerequisites:** jr st or vocational teachers or cons instr.  
**Last Taught:** Spring 2014, Spring 2012.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 567 Supervision and Planning for Vocational and Technical Education  
3 cr. Undergraduate/Graduate.  
Social, economic, philosophical, and historical foundations of career education. Exploration of past, present and projected models. Strategies for program selection, community involvement, evaluation and management.  
**Prerequisites:** jr st or cons instr.  
**Last Taught:** Fall 2013, Fall 2009.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 567G Supervision and Planning for Vocational and Technical Education  
3 cr. Undergraduate/Graduate.  
Social, economic, philosophical, and historical foundations of career education. Exploration of past, present and projected models. Strategies for program selection, community involvement, evaluation and management.  
**Prerequisites:** jr st or cons instr.  
**Last Taught:** Fall 2013, Fall 2009.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 577 Adult Literacy and Workforce Development  
3 cr. Undergraduate/Graduate.  
Analyzes the problem of adult low literacy and its effects on work force development; presents alternative procedures for providing educational programs.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2012, Spring 2010.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 577G Adult Literacy and Workforce Development  
3 cr. Undergraduate/Graduate.  
Analyzes the problem of adult low literacy and its effects on work force development; presents alternative procedures for providing educational programs.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2012, Spring 2010.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 579 Current Topics in Administrative Leadership:  
1-3 cr. Undergraduate/Graduate.  
Current problems, issues and research in administrative leadership and supervision and their implications for practitioners.  
**Prerequisites:** jr st.  
**Course Rules:** May be retaken w/chg in topic to max of 9 cr.  
**Last Taught:** Fall 2011, Spring 2011.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 579G Current Topics in Administrative Leadership:  
1-3 cr. Undergraduate/Graduate.  
Current problems, issues and research in administrative leadership and supervision and their implications for practitioners.  
**Prerequisites:** jr st.  
**Course Rules:** May be retaken w/chg in topic to max of 9 cr.  
**Last Taught:** Fall 2011, Spring 2011.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 581 Administration and Supervision in Early Childhood Programs  
3 cr. Undergraduate/Graduate.  
Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships.  
**Prerequisites:** junior standing.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
AD LDSP 581G Administration and Supervision in Early Childhood Programs
3 cr. Undergraduate/Graduate.
Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships.
Prerequisites: junior standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 582 Operations Management in Early Childhood Programs
3 cr. Undergraduate/Graduate.
An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.
Prerequisites: junior standing; AD LDSP 581(P); or consent of instructor.
Course Rules: AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 582G Operations Management in Early Childhood Programs
3 cr. Undergraduate/Graduate.
An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.
Prerequisites: junior standing; AD LDSP 581(P); or consent of instructor.
Course Rules: AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 583G Financial Management and Planning in Early Childhood Programs
3 cr. Undergraduate/Graduate.
Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/approaches and program development.
Prerequisites: jr st.
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 586 Administrative Seminar: Leadership in Early Childhood Programs
3 cr. Undergraduate/Graduate.
Integrates and applies the concepts and skills acquired in the first five courses as demonstrated in the development of a major project by each student.
Prerequisites: junior standing & AD LDSP 581(P); AD LDSP 582(P) or ED POL 582(P); AD LDSP 583(P); ED POL 584(P); and CURRINS 585(P).
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 587 Serving Multicultural and Special Needs Learners
3 cr. Undergraduate/Graduate.
Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/approaches and program development.
Prerequisites: jr st.
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 588G Serving Multicultural and Special Needs Learners
3 cr. Undergraduate/Graduate.
Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/approaches and program development.
Prerequisites: jr st.
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 591 Early Childhood Leadership: The Personal Disposition of a Leader
3 cr. Undergraduate/Graduate.
Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders.
Prerequisites: junior standing; completion of childcare credentials or consent of instructor.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 591G Early Childhood Leadership: The Personal Disposition of a Leader
3 cr. Undergraduate/Graduate.
Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders.
Prerequisites: junior standing; completion of childcare credentials or consent of instructor.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 592 Early Childhood Leadership: Leading in Your Program
3 cr. Undergraduate/Graduate.
Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs.
Prerequisites: junior standing; completion of childcare credentials or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 592G Early Childhood Leadership: Leading in Your Program
3 cr. Undergraduate/Graduate.
Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs.
Prerequisites: junior standing; completion of childcare credentials or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 593G Early Childhood Leadership: Leading in Your Community and the Field
3 cr. Undergraduate/Graduate.
Leadership skills necessary for leadership in communities and the profession with a focus on collaboration, interconnections, relationships, transformation and advocacy.
Prerequisites: junior standing; completion of childcare credential or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 594G Early Childhood Leadership: Leading for Change
3 cr. Undergraduate/Graduate.
Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change.
Prerequisites: junior standing; completion of childcare credential or consent of instructor.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 594G Early Childhood Leadership: Leading for Change
3 cr. Undergraduate/Graduate.
Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change.
Prerequisites: junior standing; completion of childcare credential or consent of instructor.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 597G Program Development in Occupational Education
3 cr. Undergraduate/Graduate.
Technical, administrative, organizational, and participatory skills and knowledge associated with program development in occupational education for adults and adolescents.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 598G Introduction to Workforce Education and Development
3 cr. Undergraduate/Graduate.
Foundations of workforce education and development; nature and role of education in preparing individuals for work.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 605G Survey of Human Resource Development
3 cr. Undergraduate/Graduate.
Introduction to human resource development theories, principles, concepts, and practices.
Prerequisites: sr st.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 607G Coordination of Staff Development and Training Program
3 cr. Undergraduate/Graduate.
Provides knowledge and skills required for the design, coordination and administration of staff development and training programs.
Prerequisites: jr st.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 617 Leadership in Youth-Serving Organizations  
3 cr. Undergraduate/Graduate.  
Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.  
**Prerequisites:** jr st.  
**Last Taught:** Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 617G Leadership in Youth-Serving Organizations  
3 cr. Undergraduate/Graduate.  
Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.  
**Prerequisites:** jr st.  
**Last Taught:** Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 630 Field Work in Schools, Agencies and Institutions  
2-6 cr. Undergraduate/Graduate.  
Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.  
**Prerequisites:** Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.  
**Course Rules:** May be retaken to max of 6 cr.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 630G Field Work in Schools, Agencies and Institutions  
2-6 cr. Undergraduate/Graduate.  
Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.  
**Prerequisites:** Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.  
**Course Rules:** May be retaken to max of 6 cr.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 631 Emerging Research in Human Resource Development  
3 cr. Undergraduate/Graduate.  
Examines the role of research in Human Resource Development (HRD).  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.  
**Last Taught:** Spring 2015, Spring 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 631G Emerging Research in Human Resource Development  
3 cr. Undergraduate/Graduate.  
Examines the role of research in Human Resource Development (HRD).  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.  
**Last Taught:** Spring 2015, Spring 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 632 International Cross-Cultural Experiences in Developing Human Resources  
3 cr. Undergraduate/Graduate.  
Examining Human Resource Development (HRD) in international and global contexts.  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 632G International Cross-Cultural Experiences in Developing Human Resources  
3 cr. Undergraduate/Graduate.  
Examining Human Resource Development (HRD) in international and global contexts.  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 647 Evaluation of Adult, Continuing, and Higher Education Programs  
3 cr. Undergraduate/Graduate.  
Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/ outreach, etc.  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.  
**Last Taught:** Summer 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 647G Evaluation of Adult, Continuing, and Higher Education Programs  
3 cr. Undergraduate/Graduate.  
Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/ outreach, etc.  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.  
**Last Taught:** Summer 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 667 Program Planning in Adult Education  
3 cr. Undergraduate/Graduate.  
Principles and processes affecting programming of adult education. Focus on planning, execution, and evaluation dimensions of the programming process.  
**Prerequisites:** jr st; Ad Ldsp 517(P) or 757(657)(P).  
**Last Taught:** Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 667G Program Planning in Adult Education  
3 cr. Undergraduate/Graduate.  
Principles and processes affecting programming of adult education. Focus on planning, execution, and evaluation dimensions of the programming process.  
**Prerequisites:** jr st; Ad Ldsp 517(P) or 757(657)(P).  
**Last Taught:** Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

AD LDSP 687 Instructional Design and Teaching Strategies  
3 cr. Undergraduate/Graduate.  
Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures appropriate to particular domains of adult learning.  
**Prerequisites:** jr st; Ad Ldsp 517(P); or cons instr.  
**Last Taught:** Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
AD LDSP 687G Instructional Design and Teaching Strategies  
3 cr. Undergraduate/Graduate.  
Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures appropriate to particular domains of adult learning.  
**Prerequisites:** Jr st; Ad Ldsp 517(P); or cons instr.  
**Last Taught:** Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 691 Leadership Ethics in Multicultural Organizations  
1 cr. Undergraduate/Graduate.  
Introduction to the concept of ethics and leadership in multicultural organizations.  
**Prerequisites:** Jr st  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 691G Leadership Ethics in Multicultural Organizations  
1 cr. Undergraduate/Graduate.  
Introduction to the concept of ethics and leadership in multicultural organizations.  
**Prerequisites:** Jr st  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 692 Quality Management in Education  
1 cr. Undergraduate/Graduate.  
Introduction to the principles of quality management in education.  
**Prerequisites:** Jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with same topic.  
**Last Taught:** Fall 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 692G Quality Management in Education  
1 cr. Undergraduate/Graduate.  
Introduction to the principles of quality management in education.  
**Prerequisites:** Jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with same topic.  
**Last Taught:** Fall 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 693 Decision Making in Multicultural Organizations  
1 cr. Undergraduate/Graduate.  
Introduction to individual planning and decision making in multicultural organizations.  
**Prerequisites:** Jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'.  
**Last Taught:** Summer 2020, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 693G Decision Making in Multicultural Organizations  
1 cr. Undergraduate/Graduate.  
Introduction to individual planning and decision making in multicultural organizations.  
**Prerequisites:** Jr st.  
**Course Rules:** Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'.  
**Last Taught:** Summer 2020, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 702 Leadership in Educational Organizations  
3 cr. Graduate.  
Governance; social, political, and economic influences; theories of organizations and organizational behavior related to the administration of elementary and secondary schools.  
**Prerequisites:** Grad st.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 703 Resources for Self-directed Learning  
1 cr. Graduate.  
Resources for self-directed learning to help students succeed in online courses and programs.  
**Prerequisites:** Grad st.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 704 Technologies for Online Student Support  
1 cr. Graduate.  
Synchronous and asynchronous technologies for conducting online sessions for advising, teaching, academic, and student support.  
**Prerequisites:** Grad st.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 706 Professional Development for Online Instruction  
1 cr. Graduate.  
Prepares both current and future instructors of adults to understand online instruction as it relates to pedagogy, professional development, and institutions.  
**Prerequisites:** Grad st.  
**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Summer 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 707 Using Technology With Adult Learners  
3 cr. Graduate.  
Design and management of web-based instructional programs/classes applying principles of instructional design, media, and software applications for adult learners.  
**Prerequisites:** Grad st; Ad Ldsp 757.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 708 Online Support Services in Adult, Continuing, and Higher Education  
3 cr. Graduate.  
Assessment of trends, theory, and research for online student support; development of a plan for an online student support program.  
**Prerequisites:** Grad st.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

AD LDSP 709 Introduction to Higher Education Administration  
3 cr. Graduate.  
Contemporary issues of higher education focusing on historical, philosophical and sociological forces that affect higher education from an administrative perspective.  
**Prerequisites:** Grad st  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
AD LDSP 710 Organizational Change and Team Leadership
3 cr. Graduate.
Organizational change and team leadership is designed to introduce theories and concepts in organizational change and the interpersonal dynamics of working with and leading teams.
Prerequisites: grad st; Ad Ldsp 702 or 757(657) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 711 Organization and Governance in Higher Education Administration
3 cr. Graduate.
Overview of higher education institutions focusing on models of institutional governance, academic organization and higher education constituencies and their respective roles.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 712 Instructional Leadership
3 cr. Graduate.
Personnel functions of the building principals recruitment, induction, staff development, supervision, and evaluation. Field experience integrated into course activities.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 729 Qualitative Research and Field Studies in Education Settings
3 cr. Graduate.
Examination of qualitative techniques as applied to educational research and evaluation in schools, classrooms, and other educational settings.
Prerequisites: grad st; Ed Psy 528 or equiv.
Course Rules: Not open to students who have cr in CurrIns 729 which is identical to Ad Ldsp 729.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 732 The Politics of Education
3 cr. Graduate.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 737 Distance Education for Adults
3 cr. Graduate.
Analysis of concepts, theories, and research in distance teaching and learning focusing on adult learners, program development and assessment of distance teaching and learning.
Prerequisites: Ad Ldsp 757 or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 740 Seminar in Innovative Technologies for Learning in Education
3 cr. Graduate.
Examines innovative educational technologies and potential of these technologies for individuals, groups, and organizations; purpose and impact in organizational change; implementation in an organization.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 747 Strategic Planning and Budgeting in Adult, Continuing, and Higher Education
3 cr. Graduate.
Examines theoretical models and research literature on both strategic and operational planning, and the budgeting processes for adult, continuing, and higher education organizations.
Prerequisites: grad st; Ad Ldsp 667(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 750 Internship in Administrative Leadership
1-6 cr. Graduate.
Field experience in school and social agency settings under guidance of an experienced administrator and a faculty member.
Prerequisites: grad st; Ad Ldsp 710 & cons advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 752 School Law
3 cr. Graduate.
Authority, power, liability of school personnel, legal status of school districts, officers, pupils. Legal controls on curriculum, property, finances. Emphasis on state, federal court decisions.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 757 Principles and Foundations of Adult Education
3 cr. Graduate.
A study of concepts, theories and principles of adult education, the nature of adult processes, and factors that influence and facilitate adult learning.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 762 Management of Educational Resources
3 cr. Graduate.
Building level school finance and fiscal management. Federal, state, and local taxation policies; equity; budgeting, purchasing, and fiscal control of public and student funds.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 767 Practicum in Program Planning and Implementation
3 cr. Graduate.
Application of program planning principles including program development, budgeting, marketing, facilities management and evaluation in the implementation of an education program.
Prerequisites: grad st, Ad Ldsp 667 or 702 (705).
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 772 The Principalship
3 cr. Graduate.
In-depth seminar examining the problems and issues of school administration at the building level.
Prerequisites: grad st; completion common core.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 777 Leadership in Multicultural Organizations
3 cr. Graduate.
Analyzes concepts and theories of leadership, issues of diversity in organizations, and explores techniques for managing differences that comprise today's multicultural workforce.
Prerequisites: grad st; Ad LDSP 757(657) or 702(705) or cons instr.
Last Taught: Fall 2019, Summer 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 778 Introduction to College Student Personnel Administration
3 cr. Graduate.
Introduction to college student personnel administration stressing the various components that encompass student affairs practice in collegiate settings.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 779 Current Topics in Administrative Leadership:
1-3 cr. Graduate.
Current problems, issues and research in administrative leadership and supervision and their implications for practitioners. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 780 Internship in Student Service Administration
3 cr. Graduate.
Students will work with selected administrators in the field of special education administration.
Prerequisites: grad st; or cons instr. EXCEDUC 961 or AD LDSP 961 (P)
Course Rules: Counts as repeat of EXCEDUC 780.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 782 Principalship Field Practicum
1-3 cr. Graduate.
Field application of knowledge, concepts and skills learned in principal accreditation course work. Seminar attendance required.
Prerequisites: grad st; compl common core & Ad LDsp 772.
Course Rules: Retakeable to max of 3 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 787 Administration of Adult Education Programs
3 cr. Graduate.
Current behavioral concepts, theories, and processes of administration, supervision, and coordination as applied in adult education organizations and agencies.
Prerequisites: grad st; Ad LDsp 757 or writ cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 790 Internship in Instructional Leadership
3 cr. Graduate.
Relevant field experience for candidates seeking the WI DPI Director of Instruction administrative license.
Prerequisites: grad st; completion common core
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 792 Principalship Field Practicum
3 cr. Graduate.
Roles, responsibilities, and operational tasks of principals with practical application of knowledge, theories, systems, and processes. Field experience component and seminar component.
Prerequisites: grad st; compl common core
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 795 Women and Leadership in Education
3 cr. Graduate.
Issues of women's leadership within the field of education in the United States.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 797 The Student in the Collegiate Context
3 cr. Graduate.
Overview of the collegiate experience from multiple perspectives including race, gender, sexual identities, abilities, and age within the context of various institutions.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 798 Seminar in Human Resource Development
3 cr. Graduate.
Analyzes the concepts, current research, issues, and trends in the area of human resource development and how these issues influence organizational performance.
Prerequisites: grad st; Ad Ldsp 607.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 799 Independent Reading
1-3 cr. Graduate.
For graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr & advisor.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 800 Administration of the School Plant
2-3 cr. Graduate.
Determination of school plant needs based upon educational program, population, and utilization studies. Evaluation of existing school plant.
Prerequisites: grad st; Ad LDsp 705 & 706.
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 801 Urban Education: Doctoral Seminar
3 cr. Graduate.
Administrative leadership and policy development in urban education.
Prerequisites: grad st; admis to Ph.D. prog in Urban Educ; Educ 701(P).
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 802 District Leadership for Learning
3 cr. Graduate.
A study of the special problems and opportunities involved in administering school districts, focusing on the role of the district administrator.
Prerequisites: post masters st; or cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2016, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 805 Legislative and Legal Aspects of Special Education
3 cr. Graduate.
Legislative and legal factors involved in educating individuals with disabilities and other nondiscrimination legislation.
Prerequisites: grad st, AD LDSP 861 or EXCEDUC 861 (P).
Course Rules: Counts as repeat of EXCEDUC 805.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 812 Educational Personnel Administration and Supervision
3 cr. Graduate.
Focus on major concepts, functions and problems of personnel administration in education including recruitment, assignment, evaluation and motivation.
Prerequisites: grad st; Ad Ldsp 802 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 827 Seminar in Adult and Organizational Learning
3 cr. Graduate.
Application of transformative, critical, and action learning concepts to personal and professional development.
Prerequisites: grad st; Ad Ldsp 710(P).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 828 Using Qualitative Data Analysis Software for Educational Research
1 cr. Graduate.
Explores technical and theoretical issues associated with using qualitative data analysis software packages.
Prerequisites: grad st; Ad Ldsp 829(C)
Last Taught: Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 829 Advanced Qualitative Research Techniques for Education Settings
3 cr. Graduate.
Advanced examination of qualitative research techniques in three areas; conceptual design; data collection methods and data analysis and reporting.
Prerequisites: Ad Ldsp 729 or cons instr.
Course Rules: Not open to students who have cr in CurrIns 829 which is identical to Ad Ldsp 829.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 832 Educational Politics and Policymaking
3 cr. Graduate.
An examination of political sources of decision making in education. The role of interest groups in shaping educational policy and implementation at local, state, and national levels.
Prerequisites: post-master’s st; Ad Ldsp 802 or cons instr.
Last Taught: Spring 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 839 Practicum in Writing from Qualitative Research for Educational Settings
3 cr. Graduate.
Practice in writing from qualitative research data and analysis of qualitative text.
Prerequisites: grad st; Ad Ldsp or CurrIns 729(P) & 829(P).
Course Rules: Not open to students who have cr in CurrIns 839 which is identical to Ad Ldsp 839.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 842 Program Planning and Evaluation in Education
3 cr. Graduate.
Theory, research, and practice regarding role of the superintendent in planning and evaluating education programs. Case studies, simulations, and field applications.
Prerequisites: grad st; Ad Ldsp 802 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 849 Higher Education and the Law
3 cr. Graduate.
Designed for aspiring college or university administrators to provide knowledge and skills in the area of higher education law and policy.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 850 Supervision of Student Teaching
3 cr. Graduate.
The role and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.
Prerequisites: grad st; Ad Ldsp 705 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 852 Collective Bargaining and Contract Administration in Education
3 cr. Graduate.
Study of theory and practice of collective bargaining in educational systems. Prepares educators to manage the bargaining process and administer the contract.
Prerequisites: postmaster’s st; Ad Ldsp 802 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 861 Foundations in Systems of Educational Equity
3 cr. Graduate.
Sets the foundation for leadership in special education and student services in the context of integrated comprehensive services and student diversity.
Prerequisites: grad st.
Course Rules: Counts as repeat of EXCEDUC 861.
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 862 School Finance
3 cr. Graduate.
Theoretical/contemporary bases for raising/distributing local, state, federal funds for public education. Problems, issues of public school financial support. Analysis of Wisconsin school support.
Prerequisites: post-master's st, Ad Ldsp 802 or cons instr.
Last Taught: Fall 2019, Summer 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 867 Seminar in Continuing Education in the Professions
3 cr. Graduate.
Analysis of the role and nature of continuing education in professions; current issues affecting the development of this field of adult education practice.
Prerequisites: grad st; Ad Ldsp 667 or cons instr.
Last Taught: Fall 2012, Summer 2012, Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 877 Seminar in Two-Year Post Secondary Institutions
3 cr. Graduate.
Present status, development, functions, organizational and curriculum trends in postsecondary nonbaccalaureate institutions.
Prerequisites: grad st; Ad Ldsp 657 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 880 Proseminar in Urban Education: Administrative Leadership
3 cr. Graduate.
An examination of selected problems and issues in urban education.
Prerequisites: grad st; admis to the urban education doctoral prog.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 882 Practicum in the School Superintendentcy
1-3 cr. Graduate.
Field application of the knowledge, concepts, and skills learned in concurrent course work. Seminar attendance required.
Prerequisites: post-master's st; admis to District Administrator Cert Prog; cons instr.
Course Rules: Repeatable to 3 cr.
Last Taught: Summer 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 886 Developing Your ePortfolio in ACHEA
3 cr. Graduate.
Reflection on learning and creation of the capstone eportfolio in alignment with professional standards to represent student learning in the ACHEA program.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 3 cr max. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2019, Summer 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 890 Higher Education Finance
3 cr. Graduate.
Introduction to financing higher education and analyzing the strengths and weaknesses of that system.
Prerequisites: grad st
Course Rules: Counts as repeat of Ad Ldsp 779 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 892 Specialist Applied Research Project
2-6 cr. Graduate.
Specialist project and inquiry in applied problems of administration and supervision.
Prerequisites: postmaster's st; completion of 15 cr in specialist sequence; cons advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 893 Seminar in International Adult Education
3 cr. Graduate.
Introduction to the foundations, context, global, political, socio-economic, and educational issues for international adult education.
Prerequisites: grad st
Last Taught: Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 897 Seminar in the Philosophy and History of Adult, Continuing & Higher Education
3 cr. Graduate.
Philosophical foundations related to the historical movement of adult, continuing, and higher education and implications for future directions.
Prerequisites: grad st; Ad Ldsp 657(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 900 Role of the Professoriate
3 cr. Graduate.
Analysis of traditional faculty responsibilities of teaching, research, and service and the professional context in which they are conducted.
Prerequisites: doctoral status; counts as repeat of EDUC 900 with same topic.
Last Taught: Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 955 Seminar in Instructional Supervision
3 cr. Graduate.
Problems of teacher-learner and supervisory relationships in improvement of instructional programs and development of personnel. Analysis of selected problems.
Prerequisites: postmaster's st; eligibility for building administrator or supervisor cert.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 960 Seminar in Economics of Education
3 cr. Graduate.
Introduction to the historical evolution of American education and economic analysis of factors of school support. Federal, state, and local relationships.
Prerequisites: grad st; Ad Ldsp 882.
Current Offerings: https://catalog.uwm.edu/course-search/
AD LDSP 961 Analysis and Design of Special Education and Student Services
3 cr. Graduate.
Advanced analysis and design of organization and leadership of integrated comprehensive services for all learners.
Prerequisites: grad st; EXCEDUC 861 or AD LDSP 861 (P).
Course Rules: Counts as repeat of EXCEDUC 961.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 967 Seminar in Urban Adult, Continuing, and Higher Education
3 cr. Graduate.
Examines adult, continuing, and higher education programs provided in the urban environment and discusses issues related to the development and delivery of those programs.
Prerequisites: grad st; AD Ldsp 657(P)
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 970 Policy Issues in Urban Education
1-3 cr. Graduate.
Examines recent policy developments in education, socio-political forces which have defined policy direction, and major points of controversy surrounding educational policies.
Prerequisites: postmaster's st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 978 Seminar in Student Personnel Administration
3 cr. Graduate.
Overview of current skills and competencies needed by student affairs professionals with an emphasis on standards, retention, debt, crisis management, accountability and assessment.
Prerequisites: grad st
Last Taught: Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 990 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

AD LDSP 999 Independent Reading
1-3 cr. Graduate.
For the benefit of postmaster's students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Summer 2019, Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

African & African Diaspora Studies (AFRIC)

AFRIC 100 Black Reality: Survey of African-American Society
3 cr. Undergraduate.
An introduction to key concepts, structures, and institutions in African-American societies.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 102 Survey of African-American Literature
3 cr. Undergraduate.
A survey of a variety of African-American literature.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 111 Introduction to African-American History to 1865
3 cr. Undergraduate.
African and African-American history to the Reconstruction period.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 112 Introduction to African-American History, 1865 to the Present
3 cr. Undergraduate.
African-American history from the Reconstruction era to the present.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Fall 2019, Summer 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 125 Economics of the Black Community
3 cr. Undergraduate.
A survey of key economic principles, and elements that structure economic behavior in the black community.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 163 African-American Concept of Self
3 cr. Undergraduate.
Survey of the cultural, social and psychological origins of the contemporary view African Americans have of themselves.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2009, Fall 2008, Fall 2002, Fall 1997.
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult the department chair.
**Prerequisites:** 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
**Course Rules:** May be retaken to 6 cr max.
**Last Taught:** Summer 2011, Spring 2008, Fall 2006, Fall 2005.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 205 The Poetry of African, African-American, and Caribbean Writers
3 cr. Undergraduate.
A survey of ideas, themes, values, beliefs, and attitudes in the poetry of African, African-American and Caribbean writers.
**Prerequisites:** soph st.
**General Education Requirements:** CD, HU
**Last Taught:** Fall 2013, Fall 2010, Fall 2008, Fall 2007.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 210 The African-American Novel
3 cr. Undergraduate.
A study of the social and cultural significance of the African-American novel, with emphasis on genre, imagery, and dramatic irony.
**Prerequisites:** soph st.
**General Education Requirements:** CD, HU
**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 215 Introduction to Black Social and Cultural Traditions
3 cr. Undergraduate.
A consideration of the social and cultural traditions that ground the life experiences and prospects of black people.
**Prerequisites:** none.
**General Education Requirements:** CD, SS
**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 220 Introduction to Statistics in African and African Diaspora Studies
3 cr. Undergraduate.
The use of statistical methods and techniques in African and African Diaspora Studies. Data from the Afroworld (North and South America, Africa, and the Caribbean) will be analyzed.
**Prerequisites:** Prerequisite: satisfaction of GER Quantitative Literacy Part A.
**General Education Requirements:** QLB
**Last Taught:** Fall 2019, Fall 2018, Spring 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 228 Introduction to Black Political Economy
3 cr. Undergraduate.
A survey of the interplay of the basic political and economic categories that structure the form and content of black life in America.
**Prerequisites:** soph st.
**General Education Requirements:** CD, SS
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 232 Survey of African Societies and Cultures
3 cr. Undergraduate.
A survey of continuities and changes in the social and cultural lives of the peoples of Black Africa.
**Prerequisites:** soph st.
**General Education Requirements:** SS
**Last Taught:** Spring 2020, Fall 2017, Fall 2016, Fall 2015.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 235 African Americans and South Africa
3 cr. Undergraduate.
The study of ideological, economic, religious, cultural, educational and political ties between African Americans and black South Africans from the 19th century to the present.
**Prerequisites:** soph st or cons instr.
**General Education Requirements:** HU
**Last Taught:** Fall 2013, Fall 2001, Fall 1995.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 250 Black Women and White Women in the Contemporary United States
3 cr. Undergraduate.
The effect of economics, education, social structures and history on the role of black women in US society.
**Prerequisites:** soph st.
**General Education Requirements:** SS
**Last Taught:** UWinteriM 2011, Spring 2010, Spring 2009, Spring 2008.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 261 Survey of African-American Political Philosophy
3 cr. Undergraduate.
A survey of key ideas, concepts, arguments, problems, and issues in African-American political philosophy.
**Prerequisites:** soph st.
**General Education Requirements:** CD, HU
**Last Taught:** Spring 2016, Spring 2015, Fall 2008, Fall 2004.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 265 Psychological Effects of Racism
3 cr. Undergraduate.
Psychological and socio-psychological effects of individualized and institutionalized racism on blacks and whites. Emphasis is placed on a range of interactions between blacks and whites.
**Prerequisites:** soph st.
**General Education Requirements:** CD, SS
**Last Taught:** Spring 2019, Spring 2018, Fall 2016, Fall 2015.
**Current Offerings:** https://catalog.uwm.edu/course-search/

AFRIC 289 Internship in African & African Diaspora Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of African & African Diaspora Studies in business, organizational, educational, political, or other appropriate setting.
**Prerequisites:** One credit earned for academic work based on 40 hours in internship. May be retaken to 6 credits max. Prerequisite: 100- or 200-level AFRIC course; 2.25 GPA; consent of supervising faculty member.
**Last Taught:** Fall 2009, Spring 2008, Spring 2007, Summer 2006.
**Current Offerings:** https://catalog.uwm.edu/course-search/
AFRIC 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 299 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.  
Prerequisites: none; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 300 Urban Violence  
3 cr. Undergraduate/Graduate.  
Analysis of the nature, causes, and consequences of urban violence; the possibilities and limits of violence in promoting the good of blacks will be scrutinized.  
Prerequisites: jr st.  
Last Taught: Spring 2019, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 300G Urban Violence  
3 cr. Undergraduate/Graduate.  
Analysis of the nature, causes, and consequences of urban violence; the possibilities and limits of violence in promoting the good of blacks will be scrutinized.  
Prerequisites: jr st.  
Last Taught: Spring 2019, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 301 Research Methods in African & African Diaspora Studies  
3 cr. Undergraduate.  
A survey of research methods and techniques, and the uses of the computer in data gathering and analysis in African & African Diaspora Studies.  
Prerequisites: Prerequisite: junior standing; elementary statistics course; or consent of instructor.  
Last Taught: Fall 2018, Fall 2016, Spring 2015, Fall 2012.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 311 African Religious Thought and Social Organizations  
3 cr. Undergraduate/Graduate.  
A critical analysis of foundations from which complex social structures and institutions evolved in the diverse societies of the Afroworld.  
Prerequisites: jr st.  
Last Taught: Fall 2019, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 311G African Religious Thought and Social Organizations  
3 cr. Undergraduate/Graduate.  
A critical analysis of foundations from which complex social structures and institutions evolved in the diverse societies of the Afroworld.  
Prerequisites: jr st.  
Last Taught: Fall 2019, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 312 The Church in African-American Life  
3 cr. Undergraduate.  
A study of the socio-cultural significance of the church in the evolution of the black community.  
Prerequisites: jr st.  
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 314 The School in African-American Life  
3 cr. Undergraduate.  
A study of the socio-cultural significance of the school in the evolution of the black community.  
Prerequisites: Jointly offered with & counts as a repeat of ED POL 314(353). Prerequisite: junior standing.  
General Education Requirements: CD, HU  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 319 African American Urban History  
3 cr. Undergraduate/Graduate.  
A consideration of the contributions of blacks to the growth and development of the American city.  
Prerequisites: jr st.  
Last Taught: Fall 2015, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 319G African American Urban History  
3 cr. Undergraduate/Graduate.  
A consideration of the contributions of blacks to the growth and development of the American city.  
Prerequisites: jr st.  
Last Taught: Fall 2015, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 320 Black Cultures in Latin America and the Caribbean  
3 cr. Undergraduate.  
African influence on Latin America and the Caribbean, and the cultures of black peoples in several areas, particularly Brazil, Cuba, Haiti, Jamaica, Trinidad, and Barbados.  
Prerequisites: jr st.  
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 321 Black Workers in the 21st Century  
3 cr. Undergraduate/Graduate.  
Analysis of scientific and technological changes in America since 1900, and their qualitative as well as quantitative impact on black productivity and participation in the work force.  
Prerequisites: jr st.  
Last Taught: Fall 2016, Fall 1985.  
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 321G Black Workers in the 21st Century
3 cr. Undergraduate/Graduate.
Analysis of scientific and technological changes in America since 1900, and their qualitative as well as quantitative impact on black productivity and participation in the work force.
Prerequisites: jr st.
Last Taught: Fall 2016, Fall 1985.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 322 Order and Disorder: The Quest for Social Justice
3 cr. Undergraduate/Graduate.
An analysis of the forms, purposes, and effects of order and disorder in relation to black people's quest for social justice.
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 323 Capitalism, Socialism, Nationalism and Fascism
3 cr. Undergraduate.
An analysis of the political philosophies of capitalism, socialism, nationalism and fascism in relation to their significance for the organization of political societies in the Afroworld.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 325 Africa/China Relations
3 cr. Undergraduate.
Historical and emerging political and economic relationship between the African continent and China.
Prerequisites: Counts as a repeat of AFRIC 565 with similar title. Prerequisite: junior standing.
Last Taught: Fall 2019, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 325G Africa/China Relations
3 cr. Undergraduate/Graduate.
Historical and emerging political and economic relationship between the African continent and China.
Prerequisites: Counts as a repeat of AFRIC 565 with similar title. Prerequisite: junior standing.
Last Taught: Fall 2019, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 326G Economic Problems of Black Business
3 cr. Undergraduate/Graduate.
Examination of major economic problems of black business: liquidity, credit, market shares, insurance, rents, mortgages, and location are analyzed in relation to black business performance.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 329G Economic Growth and Sustainable Development in Africa
3 cr. Undergraduate/Graduate.
Economic development in African countries; poverty reduction strategies, role of education and health, Millennium Development Goals, agrarian systems, international trade; U.S. as key trading partner.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 334 Survey of Black American and Black Brazilian Societies
3 cr. Undergraduate.
Examines similarities and differences between peoples of African descent in the United States and Brazil, with reference to society, culture, and political economy.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 341 Black Politics and City Government
3 cr. Undergraduate.
An analysis of the impact of black politics on the decision-making process of, and delivery of goods and services by, state and local governments.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 344 Global Black Social Movements
3 cr. Undergraduate/Graduate.
Analysis of leadership, ideology, and the structure of black political movements and organizations in the twentieth century.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 350 The Black Family
3 cr. Undergraduate/Graduate.
An examination of the structure and functions of the black family in its urban and rural contexts.
Prerequisites: jr st.
Last Taught: Fall 2014, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 350G The Black Family
3 cr. Undergraduate/Graduate.
An examination of the structure and functions of the black family in its urban and rural contexts.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 351 Sexuality, Gender, and Health in Africa and the Diaspora
3 cr. Undergraduate.
Drawing on cultural studies and social science approaches, this course asks the question of how health and illness is socially and culturally determined.
Prerequisites: jr st.
Last Taught: Spring 2018, Spring 2016, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 352 Extended Families in Black Societies
3 cr. Undergraduate.
A critical cross-national/cross-cultural analysis of the structures and functions of black extended families in the Americas and Africa.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 362 Philosophy and Thought in Africa and the Diaspora II
3 cr. Undergraduate.
Philosophical foundations of the intellectual tradition and political ideas of Africa and the African diaspora after 1900.
Prerequisites: jr st.
Last Taught: Summer 2010, Fall 2008, Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 369 Black Images and Mass Media
3 cr. Undergraduate.
An evaluation of how the mass media have affected the psyche of Black people.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 370 Forms of Black Expression
3 cr. Undergraduate.
An analysis of elements of African traditions that have influenced the literature, music, art, dance, and folkways (in the Afro-world, particularly in the United States).
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 372 African-American Literary Movements: The Harlem Renaissance
3 cr. Undergraduate.
A consideration of the historical and social forces that promoted the development of black literature during the period of the Harlem Renaissance.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 381 Honors Seminar
3 cr. Undergraduate.
Selected topics in the political economy, cultures, and societies of the Afroworld.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken with change in topic to 9 credits max.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 411 Change in African-American Communities
3 cr. Undergraduate.
An analysis of institutional and non-institutional forces that occasion change in black communities.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 412 Blacks and the United States Constitution
3 cr. Undergraduate.
An analysis of the Constitution’s impact on blacks, and the body of law that has evolved from litigation involving the interests of black people.
Prerequisites: jr st.
Last Taught: Fall 2005, Fall 2001, Fall 2000, Fall 1999.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 414 The Black Woman in America, Africa, and the Caribbean
3 cr. Undergraduate.
A comparison of the roles and impact of the black women on American, African and Caribbean societies.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 416 Race and Social Justice in the United States
3 cr. Undergraduate.
A study of the relation between race, injustice and social change in the United States.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 417 Race, Class and Gender in Southern Africa
3 cr. Undergraduate.
Race, class and gender as sources of conflict and cooperation in southern African societies.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 418 Race, Class, and Gender in Latin America and the Caribbean
3 cr. Undergraduate.
An analysis of race, class and gender in the evolution of political, economic, and social structures in Caribbean and Latin American societies.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 420 The Political Economy of Slavery
3 cr. Undergraduate.
Analysis of the political and economic contradictions of U.S. slavery; the value of free versus slave labor is scrutinized in the context of emerging capitalism.
Prerequisites: jr st.
Last Taught: Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 450 Cultural Transmissions: Black Africa and Black America
3 cr. Undergraduate/Graduate.
A cross-national and cross-cultural comparison of the societies and cultures of black Americans and black Africans.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 450G Cultural Transmissions: Black Africa and Black America
3 cr. Undergraduate/Graduate.
A cross-national and cross-cultural comparison of the societies and cultures of black Americans and black Africans.
Prerequisites: jr st.
Last Taught: Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 451 Rites of Passage in Black Societies
3 cr. Undergraduate/Graduate.
Foundations of the use of rites of passage in different societies throughout Africa and the African diaspora.
Prerequisites: jr st.
Last Taught: Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 451G Rites of Passage in Black Societies
3 cr. Undergraduate/Graduate.
Foundations of the use of rites of passage in different societies throughout Africa and the African diaspora.
Prerequisites: jr st.
Last Taught: Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 489 Internship in African & African Diaspora Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of African & African Diaspora Studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: One credit earned for academic work based on 40 hours in internship. May be retaken to 6 credits max. Prerequisite: junior standing; 300-level or above course in AFRIC; 2.25 gpa; consent of supervising faculty member.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 1995.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 545 Raising Children, ‘Race-ing’ Children
3 cr. Undergraduate/Graduate.
Analysis of the social meaning of race in the US through the lens of childhood and adolescence; how children come to understand and navigate racism.
Prerequisites: jr st or grad st.
Course Rules: Counts as a repeat of AFRIC 565 w/ similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 545G Raising Children, ‘Race-ing’ Children
3 cr. Undergraduate/Graduate.
Analysis of the social meaning of race in the US through the lens of childhood and adolescence; how children come to understand and navigate racism.
Prerequisites: jr st or grad st.
Course Rules: Counts as a repeat of AFRIC 565 w/ similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 565 Selected Texts/Topics in African & African Diaspora Studies:
3 cr. Undergraduate/Graduate.
Examination of selected problems, issues, and themes in African & African Diaspora Studies.
Prerequisites: May be retaken w/chg in topic to 6 credits max.
Prerequisite: junior standing.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 565G Selected Texts/Topics in African & African Diaspora Studies: 3 cr. Undergraduate/Graduate.
Examination of selected problems, issues, and themes in African & African Diaspora Studies.
Prerequisites: May be retaken w/chg in topic to 6 credits max.
Prerequisite: junior standing.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 699 Independent Study
1-6 cr. Undergraduate.
See Advanced Independent Study.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 700 Foundations and Theories in African & African Diaspora Studies
3 cr. Graduate.
Seminar on historical, theoretical and institutional development of African & African Diaspora Studies. Topics examined will include Pan-Africanism, Black Feminism, Afrocentrism, Diaspora Theory, Critical Race Theory, and others.
Prerequisites: Prerequisite: graduate standing.
Last Taught: Fall 2018, Fall 2017, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

3 cr. Graduate.
Applicability of particular empirical theories and qualitative/quantitative methods to a range of substantive problems and issues pertaining to peoples of African descent.
Prerequisites: Prerequisite: graduate standing; appropriate upper-level math or statistics course.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 705 Classic Works: Intellectual Production in Africa and the Diaspora I
3 cr. Graduate.
Conceptual and value foundations of normative theory in relation to forms of social organization.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 706 Classic Works: Intellectual Production in Africa and the Diaspora II
3 cr. Graduate.
Advanced study of elements of normative theory such as justice, equality, freedom, and obligation in societal construction and reconstruction in Africa and the Diaspora.
Prerequisites: Prerequisite: graduate standing; AFRIC 705(P).
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 708 Black Literary Theory and Cultural Studies
3 cr. Graduate.
Black Studies explores African diasporic identities through the analysis of cultural productions. Central concerns include social constructions of race relating to traditions, folkways, fiction, poetry, visual arts, film, bodily performance, social media, music and more.
Prerequisites: graduate standing.
Last Taught: Fall 2018, Fall 2017, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 709 Critical Literary Theory II: Modern Concepts in the African World
3 cr. Graduate.
Intensive examination of cardinal elements in critical literary theory in the context of ideas and behaviors that have shaped the lives of Africans and their descent historically.
Prerequisites: Prerequisite: graduate standing; AFRIC 708(P).
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 799 Graduate Independent Study
1-3 cr. Graduate.
Independent work supervised by a member of the graduate faculty.
Prerequisites: grad st; cons instr.
Course Rules: Retakable with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 800 Introduction to Qualitative Research Methods in African & African Diaspora Studies
3 cr. Graduate.
Various qualitative methods and methodological issues germane to African & African Diaspora Studies, including archival research, interviewing, focus groups, participant observation, and analysis of representations.
Prerequisites: Prerequisite: graduate standing.
Last Taught: Fall 2019, Fall 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 804 Qualitative Interviewing and Grounded Theory
3 cr. Graduate.
In-depth, hands-on examination of qualitative interviewing in research. Students design, conduct, and analyze qualitative interviews using grounded theory. Seminar-style course.
Prerequisites: No credit for students who have credit in AFRIC 880 w/ same topic. Prerequisite: graduate standing; prior coursework in qualitative methods or consent of instructor.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 812 Political Economy: Conceptual
3 cr. Graduate.
Advanced analysis of varieties of conceptual frameworks in the literature of political economy.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 814 Public Policies, Development, and Underdevelopment in Africa & the Diaspora
3 cr. Graduate.
Investigation into public policy and development in Africa and the Diaspora.
Prerequisites: grad st
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 816 Political Economy of Development in African Countries
3 cr. Graduate.
The importance of political institutions in shaping economic performance to advance understanding of economic development in the context of sub-Saharan African countries.
Prerequisites: grad st.
Last Taught: Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 817 Political Economy of Development in African Countries II
3 cr. Graduate.
Growth-enhancing governance, economic performance, and economic development in sub-Saharan African Countries.
Prerequisites: grad st; Africol 816(P) or cons instr.
Course Rules: Counts as repeat of Africol 880 w/same topic.
Last Taught: Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 818 Race Matters: Government and Politics in Latin America and the Caribbean
3 cr. Graduate.
Presence, role, status, situation, and conditions of Afro-Americans (Afro-Latins and Afro-Caribbeans) in the Americas, from the federal republic of Mexico to the Argentine republic.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2015, Spring 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 820 Political Economy of Income and Wealth Inequality
3 cr. Graduate.
Seminar on economic inequality, with special emphasis on the United States. No credit for students who have credit in AFRIC 880 w/same topic. Prerequisite: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 821 Race and Inequality
3 cr. Graduate.
Discrimination and racial inequality along socio-economic dimensions.
Prerequisites: grad st.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 834 Seminar on Slavery
3 cr. Graduate.
Culture and political economy of slavery; historical context for American slavery; slavery as political and economic issue; social-psychology of slavery; persistence of slavery's legacies.
Prerequisites: grad st.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 836 Comparative Social Institutions in African World Communities
3 cr. Graduate.
Origins, nature, and functioning of social institutions in African world communities; continuity and change; development of community and cultural identities of Africans and their descendents; theoretical/analytical approaches.
Prerequisites: grad st.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 837 Memory and Tradition: Identity-Making and Memory in the African Diaspora
3 cr. Graduate.
Role of memory and tradition in forming collective and individual identities in the African Diaspora; symbolic value and functional aspects; focus on sub-Saharan Africa.
Prerequisites: grad st.
Last Taught: Spring 2019, Spring 2017, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 840 Healing Traditions in the African Diaspora
3 cr. Graduate.
Advanced study of healing traditions, practices, and rituals throughout the African Diaspora.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 845 Race/Ethnicity and the Psychology of Oppression
3 cr. Graduate.
Psychological processes involved in creating and sustaining oppressive societies; emphasis on the role of racism societally and the impact of oppression on individuals and groups.
Prerequisites: grad st.
Last Taught: Fall 2015, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 851 African-American Literary Theory and Criticism
3 cr. Graduate.
An intensive study of historical and contemporary trends in African-American literary criticism and theory.
Prerequisites: grad st.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 852 Folklore in the African World:
3 cr. Graduate.
A close scrutiny of a particular forms of folk literature of people of African descent.
Prerequisites: grad st.
Course Rules: Retakable with change in topic to 6 cr max.
Last Taught: Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 855 Development of African-American Children in Urban and Rural Areas
3 cr. Graduate.
Developmental processes facing African-American children, including identity development and racial socialization, impact of environment, notion of 'a single African-American identity;' theories and methodological approaches.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
AFRIC 865 The Quest for Pan-Africanism
3 cr. Graduate.
History and future motion of movement to create a united Africa; political, economic, and social barriers to unification; united Africa in the global community.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 866 Black Power Reconsidered
3 cr. Graduate.
The salience of black power in the context of campaigns for educational equality, urban politics, economic justice, residential segregation, urban renewal, anti-colonial struggle, and cultural politics.
Prerequisites: grad st.
Course Rules: No cr for students with credit in Africol 880 w/ similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 867 Problems in African American Urban History
3 cr. Graduate.
Ways scholars have conceptualized and interpreted 20th century African American urban life; assumptions and logic that undergird various approaches; potential intellectual and political implications.
Prerequisites: grad st.
Course Rules: No cr for students with credit in Africol 880 w/ similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 868 Black Intellectuals and the Public Sphere
3 cr. Graduate.
How black intellectuals have defined knowledge and positioned themselves politically and professionally; the various spheres in which they operate.
Prerequisites: grad st.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 880 Seminar on Issues in African & African Diaspora Studies:
3 cr. Graduate.
Research seminar on issues of interest in African & African Diaspora Studies.
Prerequisites: Prerequisite: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

AFRIC 990 Dissertation Research
1-3 cr. Graduate.
Research or dissertation work for students in the doctoral program.
Prerequisites: grad st; cons instr.
Course Rules: Retakable as necessary to complete the dissertation.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 100 Leadership Laboratory
0 cr. Undergraduate.
Provides prospective Air Force officers opportunities and feedback needed to develop followership, leadership, teamwork and managerial skills.
Prerequisites: none.
Course Rules: Repeatable. Students who enroll in any AFAS course must also enroll in Leadership Laboratory.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 101 Air Force Heritage and Values I
1 cr. Undergraduate.
Introduction to communication skills and the US Air Force. Overview of the basic characteristics, missions, and organization.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 102 Air Force Heritage and Values II
1 cr. Undergraduate.
Continuation of AFAS 101.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 201 Team and Leadership Fundamentals I
1 cr. Undergraduate.
Air Force heritage and leaders; introduction to air and space power; and continued application of communication skills.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 202 Team and Leadership Fundamentals II
1 cr. Undergraduate.
Continuation of AFAS 201.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 301 Leading People and Effective Communication I
3 cr. Undergraduate.
Leadership and quality management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force officer. Case studies are used as a means of demonstrating and exercising practical application of the concepts being studied.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
AFAS 302 Leading People and Effective Communication II
3 cr. Undergraduate.
Continuation of AFAS 301.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 401 National Security, Leadership Responsibilities, Commissioning Preparation I
3 cr. Undergraduate.
Examines the national security policy process, regional studies, and formulation of the American defense policy, strategy and joint doctrine.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AFAS 402 National Security, Leadership Responsibilities, Commissioning Preparation 2
3 cr. Undergraduate.
Continuation of AFAS 401.
Prerequisites: none.
Course Rules: Students must concurrently enroll in AFAS 100.
Current Offerings: https://catalog.uwm.edu/course-search/

American Indian Studies (AIS)

AIS 101 Introduction to American Indian Studies
3 cr. Undergraduate.
Indigenous experience in the land now called U.S.A.; colonization, tradition and spirituality, indigenousness and sovereignty; current issues, e.g., language preservation, treaty rights, social justice. Theoretical approaches.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 105 Anishinaabe Ethnobotany: Plants in Anishinaabe Culture
3 cr. Undergraduate.
Anishinaabe botanical knowledge as it relates to Anishinaabe culture.
Prerequisites: none.
Course Rules: No cr for students who have cr in Bio Sci 105.
General Education Requirements: CD
Last Taught: Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy
3 cr. Undergraduate.
Anishinaabe philosophical and religious beliefs incorporating botanical knowledge.
Prerequisites: none.
Course Rules: AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 161 First-Semester Indigenous Languages of Wisconsin:
4 cr. Undergraduate.
First-semester speaking, listening, and writing skills in an indigenous language of Wisconsin.
Prerequisites: none.
Course Rules: Retakeable with change in topic to 12 cr max. Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 162 Second-Semester Indigenous Languages of Wisconsin:
4 cr. Undergraduate.
Second-semester speaking, listening, and writing skills in an indigenous language of Wisconsin.
Prerequisites: AIS 161 (P) or level 2 placement. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Retakeable with change in topic to 12 cr max. Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 199 Independent Study
3 cr. Undergraduate.
Independent work supervised by a member of the AIS Program instructional staff.
Prerequisites: 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
AIS 203 Western Great Lakes American Indian Community Life of the Past
3 cr. Undergraduate.
Study of western Great Lakes American Indian community life of the past, with an emphasis on pre-European conditions, social organizations, value systems, family life, and ceremonial life.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 203.
General Education Requirements: CD, SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 225 The Aztec Empire
3 cr. Undergraduate.
Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.
Prerequisites: none.
Course Rules: AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 251 Third Semester Anishinaabemowin (Ojibwe)
4 cr. Undergraduate.
Third-semester speaking, listening and writing skills in Anishinaabemowin, the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.
Prerequisites: AIS 152 or level 3 placement. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Course Rules: Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 252 Fourth Semester Anishinaabemowin (Ojibwe)
4 cr. Undergraduate.
Fourth-semester speaking, listening and writing skills in Anishinaabemowin the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.
Prerequisites: AIS 251 or level 4 placement. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Course Rules: Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 262 North American Indian History to 1887
3 cr. Undergraduate.
A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.
Prerequisites: none.
Course Rules: AIS 262 & Hist 262 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 263 North American Indian History Since 1887
3 cr. Undergraduate.
A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.
Prerequisites: none.
Course Rules: AIS 263 & Hist 263 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 276 Introduction to American Indian Literature:
3 cr. Undergraduate.
Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe of time period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 289 Internship in American Indian Studies, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of American Indian Studies in a business, organizational, educational, political, or other appropriate settings.
Prerequisites: AIS 101(P); 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 296 UROP Apprenticeship, Lower Division
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
AIS 308 Archaeology of North America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures on the North American continent, north of Mexico.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 308G Archaeology of North America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures on the North American continent, north of Mexico.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 310 Archaeology of Middle America
3 cr. Undergraduate/Graduate.
Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 310G Archaeology of Middle America
3 cr. Undergraduate/Graduate.
Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 311 The World of the Ancient Maya
3 cr. Undergraduate/Graduate.
Historical development of ancient Maya civilization from its origins to the Spanish Conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 311G The World of the Ancient Maya
3 cr. Undergraduate/Graduate.
Historical development of ancient Maya civilization from its origins to the Spanish Conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 314 American Indian Societies and Cultures
3 cr. Undergraduate/Graduate.
Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.
Prerequisites: jr st; Anthro 102(R).
Course Rules: AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 314G American Indian Societies and Cultures
3 cr. Undergraduate/Graduate.
Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.
Prerequisites: jr st; Anthro 102(R).
Course Rules: AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 321 Contemporary Issues of the American Indian
3 cr. Undergraduate.
Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g., activism and cultural experiences.
Prerequisites: jr st; any Sociol 100 level course or Sociol 224(P).
Course Rules: AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 360 Ezhi-Kinomaageying: Anishinaabe Curriculum
3 cr. Undergraduate.
Hist of Anishinaabe language instruction, including impact of social and political movements and contemporary trends. Review and creation of effective instructional methods for teaching Anishinaabemowin.
Prerequisites: AIS 252(P) or cons instr.
Course Rules: Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2018, Spring 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 362 System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.
Course Rules: AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
AIS 362G System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.
Course Rules: AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 370 Anishinaabebiige: Archival to Contemporary Writing
3 cr. Undergraduate.
Introduction to researching, reading, and creating archival material for proficient speakers of Anishinabemowin.
Prerequisites: AIS 252(P) or cons instr.
Course Rules: Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 372 Survey of American Indian Literature
3 cr. Undergraduate.
A general, representative study of the literature of the American Indian.
Prerequisites: jr st; satisfaction of GER English Composition Competency req.
Course Rules: AIS 372 & English 372 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 473 History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 473G History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 474 Topics in North American Indian History.
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 474G Topics in North American Indian History.
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 475 American Indian History, Law, and Government
3 cr. Undergraduate/Graduate.
American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 475G American Indian History, Law, and Government
3 cr. Undergraduate/Graduate.
American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 489 Internship in American Indian Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of American Indian Studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Summer 2015, Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
AIS 496 UROP Apprenticeship, Upper Division
1-3 cr. Undergraduate.
Advanced-level undergraduate research participation in a project
developed with a supervising member of the faculty or staff.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP
seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any
combination of UROP apprenticeship courses.
Last Taught: Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 520 Studies in American Indian Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in American Indian
Literature.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: AIS 520 & English 520 are jointly offered; w/same topic,
they count as repeats of one another. Retakable w/chg of topic to 9 cr
max.
General Education Requirements: CD
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 525 American Indian Literature, Culture, and Creative Arts
3 cr. Undergraduate/Graduate.
Critical methods in understanding indigenous literature, cultures, and
creative arts; uses of arts in indigenous cultures; how arts influence
people's views of indigenous peoples.
Prerequisites: jr st; completion of GER English Composition competency
req.
Course Rules: AIS 525 & English 525 are jointly offered; they count as
repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 525G American Indian Literature, Culture, and Creative Arts
3 cr. Undergraduate/Graduate.
Critical methods in understanding indigenous literature, cultures, and
creative arts; uses of arts in indigenous cultures; how arts influence
people's views of indigenous peoples.
Prerequisites: jr st; completion of GER English Composition competency
req.
Course Rules: AIS 525 & English 525 are jointly offered; they count as
repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 532 Seminar in American Indian Literature:
3 cr. Undergraduate/Graduate.
Focus on major forms, prominent themes, or tribal traditions in the
literature of the American Indian.
Prerequisites: jr st; declaration of AIS major.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 532G Seminar in American Indian Literature:
3 cr. Undergraduate/Graduate.
Focus on major forms, prominent themes, or tribal traditions in the
literature of the American Indian.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: AIS 632 & English 632 are jointly offered; w/same topic
they count as repeats of one another. Retakable w/chg in topic of 6 cr
max.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 600 Field Project - Capstone Research or Applied Project
3 cr. Undergraduate.
Research or applied project on area of student's interest under
supervision of AIS faculty member. Formal field project paper required.
Prerequisites: jr st; declared AIS major.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 632G American Indian Literature, Culture, and Creative Arts
3 cr. Undergraduate/Graduate.
Critical methods in understanding indigenous literature, cultures, and
creative arts; uses of arts in indigenous cultures; how arts influence
people's views of indigenous peoples.
Prerequisites: jr st; completion of GER English Composition competency
req.
Course Rules: AIS 525 & English 525 are jointly offered; they count as
repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

AIS 699 Advanced Independent Study
1-6 cr. Undergraduate.
Advanced independent work under the supervision of an AIS Program
instructional staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, program coordinator,
and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Anthropology (ANTHRO)

ANTHRO 14 Foundations of Flamenco
1 cr. Undergraduate.
Survey of the social groups and forces that have led to the formation of
the Andalusian Spanish form of musical expression, Flamenco.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 101 Introduction to Anthropology: Human Origins
3 cr. Undergraduate.
Principles of evolution, Mendelian genetics, human adaptability, and concept of race; natural history of primates; human evolution; archaeological evidence for the evolution of culture.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 102 Introduction to Anthropology: Culture and Society
3 cr. Undergraduate.
Science of human behavior in different cultural contexts; human biological and cultural variability; human societies of the present and recent past; dynamics of culture change.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 103 Digging Up the Past: Approaches to Archaeology
3 cr. Undergraduate.
Why and how extinct cultures are studied. Current archaeological approaches, reconstructing past environments, ethnographic analogy, experimental archaeology.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies
3 cr. Undergraduate.
Variety and diversity of human cultural adaptations. Specific peoples and cultures are discussed with respect to their similarities and uniquenesses.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 105 Introduction to Linguistic Anthropology
3 cr. Undergraduate.
Methods, techniques, and models of analysis of linguistic anthropology and their applications to the other subfields of anthropology.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 140 Games and Society
3 cr. Undergraduate.
Cultural and social contexts of play and games; institutions, technology, and games. 2 hrs lec, 1 hr dis.
Prerequisites: none.
Course Rules: Jointly offered with and counts as a repeat of DAC 140.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 150 Multicultural America
3 cr. Undergraduate.
Comparative study of U.S. ethnic and racial identities through popular culture with attention to African-, Asian-, Hispanic-, and Native-American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req'd service learning component.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 156 Food and Culture
3 cr. Undergraduate.
Social and cultural implications of food; nutritional and dietetic concerns of secondary interest. 2 hrs lec, 1 hr dis.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 193 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 203 Indigenous Religions
3 cr. Undergraduate.
A survey of the religious beliefs and practices of subsistence societies and their relationships to other aspects of culture.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 212 The Past on Tap: The Archaeology of Fermented Beverages
3 cr. Undergraduate.
Introduction to the production, distribution and consumption of fermented beverages in the ancient world with a particular emphasis on archaeological evidence.
Prerequisites: none.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 213 American Indian Peoples of Wisconsin
3 cr. Undergraduate.
Past and contemporary societies and cultures of American Indians of Wisconsin, including the Chippewa (Ojibwa), Menominee, Winnebago, Oneida, Potawatomi, Stockbridge-Munsee.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 214 Ancient Civilizations of Latin America
3 cr. Undergraduate.
A comparative archaeological overview of various civilizations that flourished in Latin America prior to the arrival of Spanish conquistadors in the early 16th century.
Prerequisites: none.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 225 The Aztec Empire
3 cr. Undergraduate.
Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.
Prerequisites: none.
Course Rules: AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 229 Madness and Culture
3 cr. Undergraduate.
Madness of some kind as a recognized universal in human experience; variation in how madness is expressed, classified, and treated over time and across cultures.
Prerequisites: none.
Last Taught: Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 250 Women's Roles in Cross-Cultural Perspective
3 cr. Undergraduate.
Investigation of cross-cultural similarities and differences in women's roles; insights into the nature of women's roles in North American society.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly offered with & counts as repeat of Chem/BMS/Crm Jst 281.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 289 Internship in Anthropology, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of anthropology in a business, organizational, educational, political, or other appropriate settings.
Prerequisites: Anthro 101(P), 102(P), 103(P) or 360(P); 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 298 Study Abroad: Brazil
3 cr. Undergraduate.
Three weeks in Brazil participating in seminars, visiting urban businesses, religious centers, squatter settlements, etc., and traveling to rural cattle ranches, sugar cane plantations etc.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 301 Human Evolution and Variation
3 cr. Undergraduate.
Theory, mechanisms, and processes of biological evolution applied to problems of the primate and human fossil record and contemporary human populations. 2 hrs lec, 2 hrs lab.
Prerequisites: soph st; Anthro 101(P), Bio Sci 100(P), 102(P), or 150(P), or cons instr.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 302 Anthropology and Popular Culture
3 cr. Undergraduate/Graduate.
Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory.
Prerequisites: jr st; grade of C or better in English 102(P) or score of 637 or higher on EPT.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 302G Anthropology and Popular Culture
3 cr. Undergraduate/Graduate.
Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory.
Prerequisites: jr st; grade of C or better in English 102(P) or score of 637 or higher on EPT.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 304 Violence and Warfare in Prehistory
3 cr. Undergraduate/Graduate.
Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 304G Violence and Warfare in Prehistory
3 cr. Undergraduate/Graduate.
Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 305 The Celtic World
3 cr. Undergraduate/Graduate.
Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 305G The Celtic World
3 cr. Undergraduate/Graduate.
Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 306 European Archaeology
3 cr. Undergraduate/Graduate.
Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 306G European Archaeology
3 cr. Undergraduate/Graduate.
Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 307 World Archaeology: Foundations of Civilization
3 cr. Undergraduate/Graduate.
Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 307G World Archaeology: Foundations of Civilization
3 cr. Undergraduate/Graduate.
Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 308 Archaeology of North America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures on the North American continent, north of Mexico.
Prerequisites: jr st; Anthro 103 (P) or cons instr.
Course Rules: AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 308G Archaeology of North America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures on the North American continent, north of Mexico.
Prerequisites: jr st; Anthro 103 (P) or cons instr.
Course Rules: AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 309 Archaeology of Central and South America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 309G Archaeology of Central and South America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 310 Archaeology of Middle America
3 cr. Undergraduate/Graduate.
Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 310G Archaeology of Middle America
3 cr. Undergraduate/Graduate.
Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 311 The World of the Ancient Maya
3 cr. Undergraduate/Graduate.
Historical development of ancient Maya civilization from its origins to the Spanish Conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 311G The World of the Ancient Maya
3 cr. Undergraduate/Graduate.
Historical development of ancient Maya civilization from its origins to the Spanish Conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 313 Archaeology of the American Southwest
3 cr. Undergraduate/Graduate.
Pre-Hispanic cultures of the southwestern United States and northwestern Mexico.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 313G Archaeology of the American Southwest
3 cr. Undergraduate/Graduate.
Pre-Hispanic cultures of the southwestern United States and northwestern Mexico.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 314G American Indian Societies and Cultures
3 cr. Undergraduate/Graduate.
Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.
Prerequisites: jr st; Anthro 102(R).
Course Rules: AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 314 American Indian Societies and Cultures
3 cr. Undergraduate/Graduate.
Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.
Prerequisites: jr st; Anthro 102(R).
Course Rules: AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 320 Peoples and Cultures of Africa
3 cr. Undergraduate/Graduate.
Description and analysis of the cultures of Africa, especially south of the Sahara.
Prerequisites: Preq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.
Last Taught: Fall 2005, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 320G Peoples and Cultures of Africa
3 cr. Undergraduate/Graduate.
Description and analysis of the cultures of Africa, especially south of the Sahara.
Prerequisites: Preq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.
Last Taught: Fall 2005, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 322 Europe in Anthropological Perspective  
3 cr. Undergraduate/Graduate.  
Key topics in the anthropology of Europe, including nationalism and  
ritual, gender and politics, borders and immigration, and bureaucracy and  
citizenship.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 322G Europe in Anthropological Perspective  
3 cr. Undergraduate/Graduate.  
Key topics in the anthropology of Europe, including nationalism and  
ritual, gender and politics, borders and immigration, and bureaucracy and  
citizenship.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 325 Japanese Culture and Society  
3 cr. Undergraduate/Graduate.  
Japanese culture and society, including marriage and the family, work  
life, education, rural and urban social organization, gender, ritual and life  
cycle.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Fall 2015, Spring 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 325G Japanese Culture and Society  
3 cr. Undergraduate/Graduate.  
Japanese culture and society, including marriage and the family, work  
life, education, rural and urban social organization, gender, ritual and life  
cycle.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Fall 2015, Spring 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 326 Peoples and Cultures of South Asia  
3 cr. Undergraduate/Graduate.  
The subcontinent south of the Himalayas, including India, Nepal,  
Pakistan, Bangladesh, and Sri Lanka.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Spring 2016, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 326G Peoples and Cultures of South Asia  
3 cr. Undergraduate/Graduate.  
The subcontinent south of the Himalayas, including India, Nepal,  
Pakistan, Bangladesh, and Sri Lanka.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Spring 2016, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 328 Comparative Studies of Music, Race, and Gender in  
Nationalism  
3 cr. Undergraduate/Graduate.  
A comparative study of the processes of nation-formation and of  
the roles played by race, gender, and music in constructing national  
identities.  
Prerequisites: jr st; Anthro 102(R); grade of C or better in English 102(P)  
or score 637 or higher on EPT.  
Last Taught: Fall 2010, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 328G Comparative Studies of Music, Race, and Gender in  
Nationalism  
3 cr. Undergraduate/Graduate.  
A comparative study of the processes of nation-formation and of  
the roles played by race, gender, and music in constructing national  
identities.  
Prerequisites: jr st; Anthro 102(R).  
Last Taught: Fall 2010, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 335 American Indians of the Southeast  
3 cr. Undergraduate/Graduate.  
Description and analysis of Southeastern Indian cultures, including  
subsistence, sociopolitical organizations, beliefs, and Euro-American  
relations.  
Prerequisites: jr st; Anthro 102(R) & 314(R).  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 335G American Indians of the Southeast  
3 cr. Undergraduate/Graduate.  
Description and analysis of Southeastern Indian cultures, including  
subsistence, sociopolitical organizations, beliefs, and Euro-American  
relations.  
Prerequisites: jr st; Anthro 102(R) & 314(R).  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 340 Cultures of Online Games and Virtual Worlds  
3 cr. Undergraduate/Graduate.  
Anthropological understandings of online games and virtual worlds  
including: conceptual foundations, current topics, methodological issues,  
and first-hand experience.  
Prerequisites: jr st.  
Last Taught: Summer 2020, Summer 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 340G Cultures of Online Games and Virtual Worlds  
3 cr. Undergraduate/Graduate.  
Anthropological understandings of online games and virtual worlds  
including: conceptual foundations, current topics, methodological issues,  
and first-hand experience.  
Prerequisites: jr st.  
Last Taught: Summer 2020, Summer 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 349 Seminar in Ethnography and Cultural Processes  
3 cr. Undergraduate/Graduate.  
How sociocultural processes are confronted and represented through the  
genre of ethnography; new monographs used to chart innovations in the  
form.  
Prerequisites: jr st; Anthro 102(R).  
Current Offerings: https://catalog.uwm.edu/course-search/  

ANTHRO 349G Seminar in Ethnography and Cultural Processes  
3 cr. Undergraduate/Graduate.  
How sociocultural processes are confronted and represented through the  
genre of ethnography; new monographs used to chart innovations in the  
form.  
Prerequisites: jr st; Anthro 102(R).  
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 351 Anthropological Theories of Religion
3 cr. Undergraduate.
Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.
Prerequisites: jr st.
Course Rules: Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 354 Anthropology, Aesthetics, and Art
3 cr. Undergraduate/Graduate.
Arts and aesthetics in anthropological perspective; their relation to other aspects of culture, prehistoric and contemporary art, and material culture.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 354G Anthropology, Aesthetics, and Art
3 cr. Undergraduate/Graduate.
Arts and aesthetics in anthropological perspective; their relation to other aspects of culture, prehistoric and contemporary art, and material culture.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 355 Globalization, Culture, and Environment
3 cr. Undergraduate.
Anthropological approaches to examining the concept of environmental justice as a crucial component of global security.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 361 Applications in Linguistic Anthropology
3 cr. Undergraduate/Graduate.
Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.
Prerequisites: jr st; Anthro 105(360)(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 361G Applications in Linguistic Anthropology
3 cr. Undergraduate/Graduate.
Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.
Prerequisites: jr st; Anthro 105(360)(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 362 System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world’s languages within the next century.
Prerequisites: junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.
Course Rules: AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 362G System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world’s languages within the next century.
Prerequisites: junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.
Course Rules: AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 380 Anthropological Applications of GIS
3 cr. Undergraduate/Graduate.
Use of GIS in archaeology, cultural anthropology, and physical anthropology.
Prerequisites: jr st; a course in anthro.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 380G Anthropological Applications of GIS
3 cr. Undergraduate/Graduate.
Use of GIS in archaeology, cultural anthropology, and physical anthropology.
Prerequisites: jr st; a course in anthro.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 381 Honors Seminar
3 cr. Undergraduate.
Selected topics in cultural anthropology, ethnography, prehistory, and human evolution.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Last Taught: Spring 2018, Spring 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 400 Human Sociobiology
3 cr. Undergraduate/Graduate.
Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.
Prerequisites: jr st; Anthro 101(R) or 102(R).
Last Taught: Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 400G Human Sociobiology
3 cr. Undergraduate/Graduate.
Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.
Prerequisites: jr st; Anthro 101(R) or 102(R).
Last Taught: Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 401 Primate Populations
3 cr. Undergraduate/Graduate.
Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.
Prerequisites: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 401G Primate Populations
3 cr. Undergraduate/Graduate.
Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.
Prerequisites: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 402 Primate Evolution
3 cr. Undergraduate/Graduate.
Evolution, adaptation, and distribution of living primates, including humans, comparative primate adaptations and skeletal anatomy.
Evolutionary theory and its application to the primate fossil record.
Prerequisites: jr st; Anthro 301(P) or cons instr.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 402G Primate Evolution
3 cr. Undergraduate/Graduate.
Evolution, adaptation, and distribution of living primates, including humans, comparative primate adaptations and skeletal anatomy.
Evolutionary theory and its application to the primate fossil record.
Prerequisites: jr st; Anthro 301(P) or cons instr.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 403G The Human Skeleton
3 cr. Undergraduate/Graduate.
Morphological and functional examination of the skeletal system.
Microscopic and biomedical considerations of bone and cartilage, age, sex, and regional differences among modern human populations.
Combined lec/lab.
Prerequisites: jr st; Anthro 301(P) or cons instr.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 403 The Human Skeleton
3 cr. Undergraduate/Graduate.
Morphological and functional examination of the skeletal system.
Microscopic and biomedical considerations of bone and cartilage, age, sex, and regional differences among modern human populations.
Combined lec/lab.
Prerequisites: jr st; Anthro 301(P) or cons instr.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 404 Human Biological Variation
3 cr. Undergraduate/Graduate.
Evolutionary principles influencing human populations. Variation within and between human groups.
Prerequisites: jr st; ANTHRO 301(P) or consent of instructor; satisfaction of OWC-A.
Last Taught: Spring 2020, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 404G Human Biological Variation
3 cr. Undergraduate/Graduate.
Evolutionary principles influencing human populations. Variation within and between human groups.
Prerequisites: jr st; ANTHRO 301(P) or consent of instructor; satisfaction of OWC-A.
Last Taught: Spring 2020, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 405G Forensic Anthropology
3 cr. Undergraduate/Graduate.
Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology.
Prerequisites: jr st; Anthro 403(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 405 Forensic Anthropology
3 cr. Undergraduate/Graduate.
Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology.
Prerequisites: jr st; Anthro 403(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 406 Evolutionary Biology & Human Diseases
3 cr. Undergraduate/Graduate.
Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present.
Prerequisites: jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 406G Evolutionary Biology & Human Diseases
3 cr. Undergraduate/Graduate.
Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present.
Prerequisites: jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 407 Neuroanthropology
3 cr. Undergraduate/Graduate.
Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion.
Prerequisites: jr st; Anthro 101(P) or Bio Sci 150(P).
Course Rules: Counts as repeat of Anthro 641 with same topic.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 407G Neuroanthropology
3 cr. Undergraduate/Graduate.
Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion.
Prerequisites: jr st; Anthro 101(P) or Bio Sci 150(P).
Course Rules: Counts as repeat of Anthro 641 with same topic.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 408 Hormones and Behavior
3 cr. Undergraduate/Graduate.
Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans.
Prerequisites: jr st; intro course in physical anthro, bio sci, or psych.
Course Rules: Counts as repeat of Anthro 641 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 408G Hormones and Behavior
3 cr. Undergraduate/Graduate.
Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans.
Prerequisites: jr st; intro course in physical anthro, bio sci, or psych.
Course Rules: Counts as repeat of Anthro 641 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 409 Evolution, Religion, and Human Biology
3 cr. Undergraduate/Graduate.
Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health.
Prerequisites: jr st; Anthro 101(P) or an intro bio sci course.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 409G Evolution, Religion, and Human Biology
3 cr. Undergraduate/Graduate.
Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health.
Prerequisites: jr st; Anthro 101(P) or an intro bio sci course.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 420 Power and ideology in Archaeology
3 cr. Undergraduate/Graduate.
Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/similar title.
Last Taught: Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 420G Power and Ideology in Archaeology
3 cr. Undergraduate/Graduate.
Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/similar title.
Last Taught: Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 421 Cities in the Ancient World
3 cr. Undergraduate/Graduate.
Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 421G Cities in the Ancient World
3 cr. Undergraduate/Graduate.
Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 424 Ethnoarchaeology and Experimental Archaeology
3 cr. Undergraduate/Graduate.
Combination of ethnographic and experimental methods with archaeological research questions to achieve a better understanding of material culture.
Prerequisites: jr st; ANTHRO 102(P) or ANTHRO 103(P) or consent of instructor.
Course Rules: Counts as a repeat of ANTHRO 641 w/same topic.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 424G Ethnoarchaeology and Experimental Archaeology
3 cr. Undergraduate/Graduate.
Combination of ethnographic and experimental methods with archaeological research questions to achieve a better understanding of material culture.
Prerequisites: jr st; ANTHRO 102(P) or ANTHRO 103(P) or consent of instructor.
Course Rules: Counts as a repeat of ANTHRO 641 w/same topic.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 425 Hunter-Gatherer Lifeways: Past and Present
3 cr. Undergraduate/Graduate.
Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 425G Hunter-Gatherer Lifeways: Past and Present
3 cr. Undergraduate/Graduate.
Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 426 Who Owns the Past?
3 cr. Undergraduate/Graduate.
Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/same topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 426G Who Owns the Past?
3 cr. Undergraduate/Graduate.
Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/same topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 431G Cities and Culture
3 cr. Undergraduate/Graduate.
Cross-cultural analysis; relation of urban space to community, capitalism, migration, class, globalization, social and artistic movements; methods for ethnographic study.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 439 Culture and Global Health
3 cr. Undergraduate/Graduate.
Contemporary global health through the lens of cultural anthropology and related social sciences; local communities’ response to globally-directed intervention into disease.
Prerequisites: junior standing.
Course Rules: ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 439G Culture and Global Health
3 cr. Undergraduate/Graduate.
Contemporary global health through the lens of cultural anthropology and related social sciences; local communities’ response to globally-directed intervention into disease.
Prerequisites: junior standing.
Course Rules: ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 440 Medical Anthropology
3 cr. Undergraduate/Graduate.
Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease.
Prerequisites: jr st; Anthro 102(P); grade of C or better in English 102(P) or score of 637 or higher on EPT.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 440G Medical Anthropology
3 cr. Undergraduate/Graduate.
Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease.
Prerequisites: jr st; Anthro 102(P); grade of C or better in English 102(P) or score of 637 or higher on EPT.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 441 Nature, Knowledge, and Technoscience in Anthropological Perspective
3 cr. Undergraduate/Graduate.
Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender.
Prerequisites: jr. st
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 441G Nature, Knowledge, and Technoscience in Anthropological Perspective
3 cr. Undergraduate/Graduate.
Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender.
Prerequisites: jr. st
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 442 Humanitarianism in Global Perspective
3 cr. Undergraduate/Graduate.
Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.
Prerequisites: junior standing; previous completion of a social science course.
Course Rules: ANTHRO 442 & GLOBAL 442 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 442G Humanitarianism in Global Perspective
3 cr. Undergraduate/Graduate.
Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.
Prerequisites: junior standing; previous completion of a social science course.
Course Rules: ANTHRO 442 & GLOBAL 442 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 443 Medicine and Pharmaceuticals in the Global Age
3 cr. Undergraduate/Graduate.
The practices of medicine and the distribution of pharmaceuticals globally.
Prerequisites: junior standing; ANTHRO 440(R).
Course Rules: ANTHRO 443 & GLOBAL 443 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 443G Medicine and Pharmaceuticals in the Global Age
3 cr. Undergraduate/Graduate.
The practices of medicine and the distribution of pharmaceuticals globally.
Prerequisites: junior standing; ANTHRO 440(R).
Course Rules: ANTHRO 443 & GLOBAL 443 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 445 Psychological Anthropology
3 cr. Undergraduate/Graduate.
The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 445G Psychological Anthropology
3 cr. Undergraduate/Graduate.
The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 446 The Child in Different Cultures
3 cr. Undergraduate/Graduate.
Relationship of child development to particular cultural milieu; methods of child training in different cultures and their effects on the development of adult personality.
Prerequisites: jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 446G The Child in Different Cultures
3 cr. Undergraduate/Graduate.
Relationship of child development to particular cultural milieu; methods of child training in different cultures and their effects on the development of adult personality.
Prerequisites: jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 447 The Global Politics of Human Rights
3 cr. Undergraduate/Graduate.
Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.
Prerequisites: junior standing; ANTHRO 102(R).
Course Rules: ANTHRO 447 & GLOBAL 447 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 447G The Global Politics of Human Rights
3 cr. Undergraduate/Graduate.
Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.
Prerequisites: junior standing; ANTHRO 102(R).
Course Rules: ANTHRO 447 & GLOBAL 447 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 448 Cultural and Human Ecology
3 cr. Undergraduate/Graduate.
Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 448G Cultural and Human Ecology
3 cr. Undergraduate/Graduate.
Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 449 The Human Economy
3 cr. Undergraduate/Graduate.
Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture.
Prerequisites: jr st.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 449G The Human Economy
3 cr. Undergraduate/Graduate.
Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture.
Prerequisites: jr st.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 450 Political Anthropology
3 cr. Undergraduate/Graduate.
Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts.
Prerequisites: jr st; Anthro 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 450G Political Anthropology
3 cr. Undergraduate/Graduate.
Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts.
Prerequisites: jr st; Anthro 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 460 Anthropological Theory
3 cr. Undergraduate/Graduate.
Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies.
Prerequisites: sr st; Anthro 103(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 460G Anthropological Theory
3 cr. Undergraduate/Graduate.
Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies.
Prerequisites: sr st; Anthro 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 465 Historic Preservation in Archaeology
3 cr. Undergraduate/Graduate.
Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations.
Prerequisites: jr st.
Last Taught: Fall 2018, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 465G Historic Preservation in Archaeology
3 cr. Undergraduate/Graduate.
Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations.
Prerequisites: jr st.
Last Taught: Fall 2018, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 466 Historical Archaeology
3 cr. Undergraduate/Graduate.
Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past. Counts as repeat of Anthro 641 with same topic.
Prereq: jr st; Anthro 103 (P) or cons instr.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 466G Historical Archaeology
3 cr. Undergraduate/Graduate.
Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past. Counts as repeat of Anthro 641 with same topic.
Prereq: jr st; Anthro 103 (P) or cons instr.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 467 Archaeological Curation: A Practicum in the Care of Research Collections
3 cr. Undergraduate/Graduate.
Practicum in archaeological curation focusing on conservation and preservation, pest management, storage, collection accessibility, accountability, curation policies, federal regulations, and ethics.
Prerequisites: jr st; Anthro 103(P) or cons instr; or grad st.
Course Rules: Counts as repeat of Anthro 641 w/similar topic.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 467G Archaeological Curation: A Practicum in the Care of Research Collections
3 cr. Undergraduate/Graduate.
Practicum in archaeological curation focusing on conservation and preservation, pest management, storage, collection accessibility, accountability, curation policies, federal regulations, and ethics.
Prerequisites: jr st; Anthro 103(P) or cons instr; or grad st.
Course Rules: Counts as repeat of Anthro 641 w/similar topic.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 481 Criminalistics
3 cr. Undergraduate.
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P).
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 489 Internship in Anthropology, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of anthropology in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 501 Archaeology of Death
3 cr. Undergraduate/Graduate.
Archaeological study of mortuary behavior and osteology to understand cultural variability in social organization, disease, nutrition, and violence.
Prerequisites: jr st; Anthro 103(P) or cons instr; grade of C or better in English 102(P) or score 637 or higher on EPT.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 501G Archaeology of Death
3 cr. Undergraduate/Graduate.
Archaeological study of mortuary behavior and osteology to understand cultural variability in social organization, disease, nutrition, and violence.
Prerequisites: jr st; Anthro 103(P) or cons instr; grade of C or better in English 102(P) or score 637 or higher on EPT.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 502G Lithic Analysis: Stone Tools and Human Behavior
3 cr. Undergraduate/Graduate.
Stone tool production use, and archaeological analysis; experimental knapping, heat treatment, and other exercises. No cr for student w/cr in Anthro 641 w/similar topic.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 525 Zooarchaeology: Analysis of Faunal Remains
3 cr. Undergraduate/Graduate.
Theory and method, including practical labs, in the analysis of animal remains from archaeological contexts.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 525G Zooarchaeology: Analysis of Faunal Remains
3 cr. Undergraduate/Graduate.
Theory and method, including practical labs, in the analysis of animal remains from archaeological contexts.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 535 Analysis of Archaeological Ceramics
3 cr. Undergraduate/Graduate.
Archaeological approaches to ceramic analysis including theory and methods; ethnoarchaeological, experimental, compositional, and stylistic approaches; practical skills including sorting, typing, and reporting ceramic assemblages.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: Counts as repeat of Anthro 641 with similar topic.
Last Taught: Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 535G Analysis of Archaeological Ceramics
3 cr. Undergraduate/Graduate.
Archaeological approaches to ceramic analysis including theory and methods; ethnoarchaeological, experimental, compositional, and stylistic approaches; practical skills including sorting, typing, and reporting ceramic assemblages.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: Counts as repeat of Anthro 641 with similar topic.
Last Taught: Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 540 Applications of Anthropology
3 cr. Undergraduate/Graduate.
Uses of anthropological concepts, methods, and findings in human problems resulting from culture change.
Prerequisites: jr st; Anthro 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 540G Applications of Anthropology
3 cr. Undergraduate/Graduate.
Uses of anthropological concepts, methods, and findings in human problems resulting from culture change.
Prerequisites: jr st; Anthro 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 543 Cross-Cultural Study of Religion
3 cr. Undergraduate/Graduate.
Various approaches to the study of religion; religions of selected non-Western societies.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 543G Cross-Cultural Study of Religion
3 cr. Undergraduate/Graduate.
Various approaches to the study of religion; religions of selected non-Western societies.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 544 Religious Giving in Anthropological Perspective
3 cr. Undergraduate.
Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare.
Prerequisites: jr st.
Course Rules: Anthro 544 & ReligSt 544 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 550 Introduction to Research Methods in Anthropology
3 cr. Undergraduate/Graduate.
Problem and research design formulation. How to ask and answer scientific questions using methods and techniques common to all fields of anthropology.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 560G Introduction to Research Methods in Anthropology
3 cr. Undergraduate/Graduate.
Problem and research design formulation. How to ask and answer scientific questions using methods and techniques common to all fields of anthropology.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 561 Techniques and Problems in Ethnography
3 cr. Undergraduate/Graduate.
Methods of fieldwork for cultural anthropologists; design of field studies; techniques for collection and analysis of field data; field projects.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 561G Techniques and Problems in Ethnography
3 cr. Undergraduate/Graduate.
Methods of fieldwork for cultural anthropologists; design of field studies; techniques for collection and analysis of field data; field projects.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 562 Techniques and Problems in Archaeology
3 cr. Undergraduate/Graduate.
Methods of fieldwork in archaeology; strategies of archaeological investigations; introduction to archaeological site mapping Lec, lab.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 562G Techniques and Problems in Archaeology
3 cr. Undergraduate/Graduate.
Methods of fieldwork in archaeology; strategies of archaeological investigations; introduction to archaeological site mapping Lec, lab.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 565 Seminar in Regional Archaeology
3 cr. Undergraduate/Graduate.
Seminar in archaeology of specific geographic areas. Consult Schedule of Classes for specific semester's content.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 565G Seminar in Regional Archaeology
3 cr. Undergraduate/Graduate.
Seminar in archaeology of specific geographic areas. Consult Schedule of Classes for specific semester's content.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 566 Archaeological Analysis and Report Preparation:
3-6 cr. Undergraduate/Graduate.
Students will organize, describe, analyze, and interpret actual archaeological materials. Each student will assist in writing an archaeological report. Fee assessed according to nature and location of field trips.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 566G Archaeological Analysis and Report Preparation:
3-6 cr. Undergraduate/Graduate.
Students will organize, describe, analyze, and interpret actual archaeological materials. Each student will assist in writing an archaeological report. Fee assessed according to nature and location of field trips.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 567 Archaeological Field School
3-6 cr. Undergraduate/Graduate.
Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 9 cr max.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 567G Archaeological Field School
3-6 cr. Undergraduate/Graduate.
Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 9 cr max.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 568 Introduction to Anthropological Statistics
3 cr. Undergraduate/Graduate.
Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods.
Prerequisites: jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 568G Introduction to Anthropological Statistics
3 cr. Undergraduate/Graduate.
Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods.
Prerequisites: jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 570 Issues in Bilingualism
3 cr. Undergraduate/Graduate.
Study of bilingual competence, bilingual community, and second
language acquisition from sociolinguistic, psycholinguistic, and general
linguistic standpoint.
Prerequisites: jr st.
Course Rules: Anthro 570 & Linguis 570 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 570G Issues in Bilingualism
3 cr. Undergraduate/Graduate.
Study of bilingual competence, bilingual community, and second
language acquisition from sociolinguistic, psycholinguistic, and general
linguistic standpoint.
Prerequisites: jr st.
Course Rules: Anthro 570 & Linguis 570 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 585 Internship in Forensic Toxicology
1-3 cr. Undergraduate.
Practical experience in a forensic toxicology laboratory under the
supervision of a toxicologist.
Prerequisites: jr st, admis to Forensic Sci cert prog; Anthro/Chem/BMS(C
L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P);
Hepatitis B vaccine series or waiver.
are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 589 Internship in Death Investigation
1-3 cr. Undergraduate.
Practical experience in death investigation under the supervision of a
death investigator and forensic pathologist.
Prerequisites: jr st, admis to Forensic Sci cert prog; Anthro/Chem/
BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R);
Hepatitis B vaccine series or waiver.
Course Rules: Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589
are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 594 Internship in Forensic Science
1-3 cr. Undergraduate.
On-site shadowing of evidence analyst at State Crime Laboratory.
Prerequisites: jr st, admis to Forensic Sci cert prog; Anthro/Chem/BMS(C
L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis
B vaccine series or waiver.
are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019, Fall 2014, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 620 Museum Fundamentals
3 cr. Undergraduate/Graduate.
Fundamentals of museum management, including administration and
leadership, programming and exhibits, and collections management.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 620G Museum Fundamentals
3 cr. Undergraduate/Graduate.
Fundamentals of museum management, including administration and
leadership, programming and exhibits, and collections management.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 621 Internship in Museum Studies
3 cr. Undergraduate/Graduate.
Supervised practical experience in museums arranged on an individual
basis.
Prerequisites: junior standing and ANTHRO 620(P) or consent of
instructor.
Course Rules: Retakeable to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 621G Internship in Museum Studies
3 cr. Undergraduate/Graduate.
Supervised practical experience in museums arranged on an individual
basis.
Prerequisites: junior standing and ANTHRO 620(P) or consent of
instructor.
Course Rules: Retakeable to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 636 Geochronology
3 cr. Undergraduate/Graduate.
Theory and application of radiometric and other numerical dating
methods in geology, archaeology, and paleoanthropology.
Prerequisites: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons
instr; or grad st & cons instr.
Course Rules: Anthro 636 & Geo Sci 636 are jointly offered; they count as
repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 636G Geochronology
3 cr. Undergraduate/Graduate.
Theory and application of radiometric and other numerical dating
methods in geology, archaeology, and paleoanthropology.
Prerequisites: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons
instr; or grad st & cons instr.
Course Rules: Anthro 636 & Geo Sci 636 are jointly offered; they count as
repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 641 Seminar in Anthropology:
3 cr. Undergraduate/Graduate.
A research seminar in any of the several recognized areas of anthropology.
Prerequisites: jr st, Anthro 101(P) or 102(P) or 103(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 644G Seminar in Anthropology:
3 cr. Undergraduate/Graduate.
A research seminar in any of the several recognized areas of anthropology.
Prerequisites: jr st, Anthro 101(P) or 102(P) or 103(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 649G Ethnography of Institutions
3 cr. Undergraduate/Graduate.
Method, practice, and theory of institutional ethnography. Counts as a repeat of Anthro 641 with the same topic.
Prerequisites: jr st.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 649G Ethnography of Institutions
3 cr. Undergraduate/Graduate.
Method, practice, and theory of institutional ethnography. Counts as a repeat of Anthro 641 with the same topic.
Prerequisites: jr st.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 699 Independent Work
1-3 cr. Undergraduate.
Advanced independent work under the supervision of an Anthro faculty or instructional academic staff member. Students must submit a study proposal. For further information, consult dept undergrad prog coord.
Prerequisites: jr st, 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 705 Advanced Topics in Ethnography:
3 cr. Graduate.
Critical examination of peoples and cultures of selected areas of the world.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 720 History and Theory of Museums
2 cr. Graduate.
History of the museum idea and its contemporary forms; educational, scientific, and changing uses of museums; museums and other institutions; museum professionalism and ethics.
Prerequisites: Anthro 620 (P); grad st; cons inst.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 721 Administration and Organization of Museums
3 cr. Graduate.
Administration and organizational problems in modern museums; finances and budgets; legal-administrative problems; relations with support groups and volunteers, record keeping, management of museum projects.
Prerequisites: grad st; cons instr; grade of B or better in Anthro 620(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 722 Visitor Experience Design in Museums
3 cr. Graduate.
Development and design of the museum visitor experience with a holistic approach including exhibitions, programs, and experience design.
Prerequisites: grad st; cons instr; grade B or better in Anthro 721(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 723 Museum Collections Management and Curation
3 cr. Graduate.
Practicum in the collection, organization, storage, care and scientific use of museum collections. Projects available in various specialties, dependent upon interest and special faculty arrangements.
Prerequisites: grad st; cons instr; grade B or better in Anthro 721(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 724 Internship in Museum Studies
3 cr. Graduate.
Supervised practical experience in museums arranged on an individual basis.
Prerequisites: grad st; Anthro 720(P); cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 725 Professionalism Capstone in Museum Studies
1 cr. Graduate.
Program capstone course, topics include: professional development/ networking, résumé/cv and portfolio development, and job search strategies.
Prerequisites: grad st; Anthro 720(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 744 Theories of Social Action: Understanding Agency & Social Structure
3 cr. Graduate.
Seminar on theories of social action. Practice and performance theories and the structure vs. agency debate.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 756 Human / Animal Entanglements
3 cr. Graduate.
Explores what has come to be known as 'the animal turn' and 'the ontological turn' - the increasing scholarly interest in the relationships between humans and other animals cross-culturally.
Prerequisites: graduate standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 762 Advanced Archaeological Analysis
3 cr. Graduate.
Study and practice in major phases of archaeological analysis.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/ chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 763 Professionalism in Anthropology
3 cr. Graduate.
Skills needed to work in academia or an applied field; relevant to any of the four sub-fields or anthropology (archaeology, cultural, biological, or linguistic).
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 768 Topics in Advanced Research Design in Anthropology
3 cr. Graduate.
Methods of fitting various models to qualitative categorizations of archaeological, ethnographical, and biological data. Includes chi-square and multiclassificatory chi-squares, scaling, cluster analysis, markov chains, and game theory.
Prerequisites: grad st; Anthro 568(R).
Last Taught: Fall 2015, Fall 2013, Fall 2010, Spring 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 797 Study Abroad:
1-6 cr. Graduate.
Allows graduate students to enroll in UWM sponsored program before course work level, content, and credits are determined and/or in specifically-prepared program course work.
Prerequisites: grad st; acceptance in Study Abroad Prog.
Course Rules: Retakable w/ chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 801 A Survey of Physical Anthropology
3 cr. Graduate.
Reviews biological principles essential to an understanding of evolution. Reviews fields central to physical anthropology and human evolution: primatology, paleontology, anatomy, human genetics, population genetics.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 802 Perspectives on Prehistory
3 cr. Graduate.
Surveys current theoretical and methodological concepts in archaeology, and their application to specific research problems. Readings include studies from both the old and new worlds.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 803 Survey of Cultural Anthropology
3 cr. Graduate.
A survey of major theoretical and methodological issues central to cultural anthropology.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 804 Linguistic Anthropology
3 cr. Graduate.
A survey of major theoretical and methodological issues central to cultural anthropology.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 844 Social Theories of Modernity
3 cr. Graduate.
Examination of classic works of modern social theory, thereby introducing students, through focused readings and extensive class discussion, to the leading thinkers whose legacy continues to shape the social sciences.
Prerequisites: graduate standing or consent of instructor.
Course Rules: Counts as a repeat of ANTHRO 705 with the same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 920 Advanced Seminar in Museological Problems
3 cr. Graduate.
Use of museum collections/museums to examine museum work regarding legal considerations, ethics, documentation; use of collections to test theories and develop conceptual exhibits.
Prerequisites: grad st; Anthro 720(P).
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 940 Seminar in Problems in Cultural Anthropology:
3 cr. Graduate.
Content varies.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 942 Seminar in Prehistory and Archaeology:
3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 969 Seminar in Linguistic Anthropology:
3 cr. Graduate.
Advanced topics in the anthropological study of language.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ANTHRO 990 Research and Thesis
1-3 cr. Graduate.
Prerequisites: grad st; writ cons instr; writ cons dept chair.
Current Offerings: https://catalog.uwm.edu/course-search/

ANTHRO 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; writ cons instr.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Applied Computing (APC)

APC 300 Programming 1
3 cr. Undergraduate.
Introduction to history of computing, fundamental computer concepts and structured programming techniques.
Prerequisites: none.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 310 Math for Computer Science
3 cr. Undergraduate.
Important foundational topics in computer science.
Prerequisites: none.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 320 Introduction to Business
3 cr. Undergraduate.
Introduction to the major functional areas of business including the roles of accounting, finance, human resources, marketing, information systems, and operations in the organization.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 330 Technical and Professional Communication
3 cr. Undergraduate.
Technical and professional communication skills and techniques. Practice in creating effective memos and reports, developing technical material, delivering presentations, and developing communication within teams.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 340 Legal and Ethical Responsibilities of the IT Professional
3 cr. Undergraduate.
Legal, regulatory, ethical and compliance issues associated with developing software and using information systems in an organization.
Prerequisites: admis to BS-APC prog; APC 320(C).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 350 Programming 2
3 cr. Undergraduate.
Continuation of fundamental computer concepts and Programming.
Prerequisites: APC 300(P); 310(P).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 360 Database Management 1
3 cr. Undergraduate.
Design and implementation of relational database management systems to support computer-based information systems.
Prerequisites: admis to BS-APC prog; APC 300(P); 310(P).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 370 System Analysis and Design
3 cr. Undergraduate.
The five phases of Systems Development Life Cycle: scope definition, problem analysis, requirements analysis, logical design and decision analysis.
Prerequisites: admis to BS-APC prog; APC 300(P); 320(P); 330(P).
Last Taught: Spring 2020, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 380 Project Management Techniques
3 cr. Undergraduate.
An introduction to project management techniques including project selection and life cycle, stakeholder/scopeequality/procurement management, budget control, scheduling, risk identification.
Prerequisites: admis to BS-APC prog; APC 370(P).
Last Taught: Summer 2020, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 390 Object Oriented Programming
3 cr. Undergraduate.
An introduction to Object-Oriented Programming techniques using the Java programming language.
Prerequisites: APC 350(P)
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 400 Applied Communication Networks
3 cr. Undergraduate.
Fundamental concepts in the design, configuration, and problem solving of computer networks.
Prerequisites: admis to BS-APC prog; APC 350(P).
Last Taught: Spring 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 410 Database Management 2
3 cr. Undergraduate.
Architecture and use-cases of non-relational (NoSQL) based on four types of databases including document, Graph, Key-value, and wide column store.
Prerequisites: admis to BS-APC prog; APC 360(P).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 420 Computer Security 1
3 cr. Undergraduate.
Security and risk management, security engineering, identity and access management, and security operations.
Prerequisites: APC 350(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
APC 430 Applied Data Structures and Algorithms
3 cr. Undergraduate.
Concepts and the application of data structures and algorithms.
Prerequisites: APC 390(P).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 440 Web Development
3 cr. Undergraduate.
Creating advanced and interactive websites using technologies like HTML 5, CSS, JavaScript, Bootstrap, XML, web services, and database integration within the ASP.Net platform.
Prerequisites: APC 360(P); 400(P).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 450 Operating Systems Theory and Practice
3 cr. Undergraduate.
An introduction to important operating systems concepts such as processes, threads, scheduling, concurrency control and memory management.
Prerequisites: admis to BS-APC prog; APC 430(C).
Current Offerings: https://catalog.uwm.edu/course-search/

APC 460 Software Engineering
3 cr. Undergraduate.
Basic software development methodologies and tools, including the waterfall, iterative, and agile approaches.
Prerequisites: APC 370(P); 390(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 470 IS Strategy and Management
3 cr. Undergraduate.
Organizational/IS strategy using a capability maturity model for topics such as budgeting, acquisition, service/change/personnel management.
Prerequisites: admis to BS-APC prog; APC 380(P); 460(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 480 Computer Security 2
3 cr. Undergraduate.
Communication and network security, security assessment and testing, software development security, and asset security.
Prerequisites: APC 360(P); 400(P); 420(P); 450(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 490 Capstone Project Preparation
1 cr. Undergraduate.
Student capstone project and creation of initial plan with specific deliverables identified.
Prerequisites: admis to BS-APC prog; APC 460(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

APC 495 Capstone Project
3 cr. Undergraduate.
Development, management and delivery of an applied computer science project for a client, including communication of project requirements and status to a non-technical audience.
Prerequisites: admis to BS-APC prog; APC 490(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

Arabic (ARABIC)

ARABIC 101 First Semester Arabic
5 cr. Undergraduate.
For students with no previous knowledge of Arabic. Emphasis on one standard dialect. Language laboratory required.
Prerequisites: none.
Course Rules: Open to native speakers of Arabic only w/cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 102 Second Semester Arabic
5 cr. Undergraduate.
Elements of reading and writing contemporary literary Arabic.
Prerequisites: Arabic 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 111 Cultures and Civilizations of the Muslim Middle East
3 cr. Undergraduate.
Muslim Middle East through historical and ethnographic materials; reading of Quran and some modern literature.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 164 Arabs and Islam in America
3 cr. Undergraduate.
History of Arab immigration, experience of Arabs, and nature of Islam and Islamic communities in America.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ARABIC 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 201 Third Semester Arabic
5 cr. Undergraduate.
Prerequisites: Arabic 102(P). Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 202 Fourth Semester Arabic
5 cr. Undergraduate.
Continuation of 201. Noun forms. Use of cases. Particles and prepositions. Introduction to Arabic verse.
Prerequisites: Arabic 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 289 Internship in Arabic, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Arabic in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Arabic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2010, Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 301 Fifth Semester Arabic
3 cr. Undergraduate.
Continuation of Arabic 202. Root and pattern systems; complex sentence structure; continued development of conversation and writing skills; strategies in reading culturally-oriented texts.
Prerequisites: Arabic 202(P).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 302 Sixth Semester Arabic
3 cr. Undergraduate.
Continuation of Arabic 301. More complex grammatical forms; vocabulary building principles; continued development of skills in conversation, reading, writing, culturally-oriented readings, and films.
Prerequisites: Arabic 301(P). Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/ change in topic.
Last Taught: Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 404 Introduction to Translation: Arabic to English
3 cr. Undergraduate.
Translating a variety of texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies.
Prerequisites: jr st; grade B or better in Arabic 302(P) or equiv, or cons instr.
Last Taught: Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 489 Internship in Arabic, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Arabic in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Arabic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARABIC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
Architecture (ARCH)

ARCH 100 Architectural Making I
3 cr. Undergraduate.
An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 101 Introduction to Architecture
3 cr. Undergraduate.
An introductory course intended to provide non-majors with a foundation in the basic concepts of architecture. Provides a general understanding of contemporary issues in architecture, architecture practice and the role architecture plays in the design.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 102 Architectural Thinking I
3 cr. Undergraduate.
Broad overview of the histories and theories that have shaped the discipline of architecture: its histories, theories and methodologies.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 103 Architectural Making II
3 cr. Undergraduate.
Survey and application of twentieth century design techniques in architecture.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 104 Architectural Thinking II
3 cr. Undergraduate.
Canonical buildings since 1800 alongside their accompanying theoretical texts are evaluated within the discipline and allied fields of inquiry.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 110 New Student Orientation
1 cr. Undergraduate.
An overview of the School of Architecture and Urban Planning, the architecture and urban planning professions, academic requirements, and student resources.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 190 Special Topics:
1-3 cr. Undergraduate.
Presentation of new material on experimental basis. Material appropriate for testing interest and ability in architecture. Specific credits and any prerequisites announced in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken wchg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 282 Visualization 1
3 cr. Undergraduate.
Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.
Prerequisites: acceptance to Level 2; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 283 Visualization 2
3 cr. Undergraduate.
Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.
Prerequisites: Arch 282(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 300 Architectural History and Theory
3 cr. Undergraduate/Graduate.
Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.
Prerequisites: acceptance to Level 2 or arch studies minor; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 300G Architectural History and Theory
3 cr. Undergraduate/Graduate.
Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.
Prerequisites: acceptance to Level 2 or arch studies minor; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 301 Architecture Systems 1
3 cr. Undergraduate/Graduate.
The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.
Prerequisites: acceptance to level 2 or arch studies minor; or graduate standing.
General Education Requirements: QLB
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 301G Architecture Systems 1
3 cr. Undergraduate/Graduate.
The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.
Prerequisites: acceptance to level 2 or arch studies minor; or graduate standing.
General Education Requirements: QLB
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 302 Architecture and Human Behavior
3 cr. Undergraduate/Graduate.
Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 302G Architecture and Human Behavior
3 cr. Undergraduate/Graduate.
Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 303 Architecture Systems 2
3 cr. Undergraduate/Graduate.
Investigation of environmental control and life safety requirements and their implications on architectural form and design.
Prerequisites: acceptance to Level 2 or arch studies minor; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 303G Architecture Systems 2
3 cr. Undergraduate/Graduate.
Investigation of environmental control and life safety requirements and their implications on architectural form and design.
Prerequisites: acceptance to Level 2 or arch studies minor; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 304 Contemporary Criticism and Urbanism
3 cr. Undergraduate/Graduate.
Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.
Prerequisites: junir standing and completion of OWC-A.
General Education Requirements: OWCB
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 304G Contemporary Criticism and Urbanism
3 cr. Undergraduate/Graduate.
Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.
Prerequisites: junir standing and completion of OWC-A.
General Education Requirements: OWCB
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 310 Fundamentals of Architectural Design I
6 cr. Undergraduate.
Formal concepts that order the production of architecture, using physical and virtual models, sketches, and drafted, scaled, orthographic drawings. Issues related to site, function and environment.
Prerequisites: acceptance to Level 2.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 320 Fundamentals of Architectural Design II
6 cr. Undergraduate.
Architectural design as a synthetic discipline that considers material/spatial experience, contextual analysis, formal concepts, and social/cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings.
**Prerequisites:** Arch 310(P).
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 326 Energy Design Fundamentals
3 cr. Undergraduate/Graduate.
Energy-related issues as they apply to site planning and architectural design, including thermal comfort, site climate analysis, building thermal response, and solar system design.
**Prerequisites:** jr st.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 326G Energy Design Fundamentals
3 cr. Undergraduate/Graduate.
Energy-related issues as they apply to site planning and architectural design, including thermal comfort, site climate analysis, building thermal response, and solar system design.
**Prerequisites:** jr st.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 340 Urban Design
3 cr. Undergraduate/Graduate.
Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.
**Prerequisites:** jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.
**Last Taught:** Fall 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 340G Urban Design
3 cr. Undergraduate/Graduate.
Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.
**Prerequisites:** jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.
**Last Taught:** Fall 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 350 Greening Milwaukee
3 cr. Undergraduate.
City wide environmental organizations are organized into lecture series on the state of sustainable issues. Thirty hours of service are required.
**Prerequisites:** soph st.
**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 380 Drawing in Architecture
3 cr. Undergraduate/Graduate.
Visual communication skills are developed in relation to basic design theory and architectural design process.
**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.
**Last Taught:** Fall 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 380G Drawing in Architecture
3 cr. Undergraduate/Graduate.
Visual communication skills are developed in relation to basic design theory and architectural design process.
**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.
**Last Taught:** Fall 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 382 Introduction to Building Information Modeling (BIM)
3 cr. Undergraduate/Graduate.
Principles of Building Information Modeling and the interface and workflow of Autodesk's Revit.
**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 382G Introduction to Building Information Modeling (BIM)
3 cr. Undergraduate/Graduate.
Principles of Building Information Modeling and the interface and workflow of Autodesk's Revit.
**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 383 Landscape Architecture
3 cr. Undergraduate/Graduate.
Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.
**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.
**Last Taught:** Spring 2018, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARCH 383G Landscape Architecture
3 cr. Undergraduate/Graduate.
Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.
**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.
**Last Taught:** Spring 2018, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/
ARCH 390 Special Topics:  
1-3 cr. Undergraduate.  
Provides a format for the development and presentation of new material.  
Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.  
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & instr.  
Course Rules: May be retaken w/chg in topic to max of 12 cr.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 391 Directed Research  
3 cr. Undergraduate.  
Student participation in research projects under faculty supervision.  
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & cons instr.  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 392 Independent Studies  
3 cr. Undergraduate.  
Independent investigation of issues related to architecture.  
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & cons instr.  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 410 Architectural Design I  
6 cr. Undergraduate.  
Design projects explore basic issues: clients' needs; site planning; masonry, wood, and steel construction; health and safety. Composition employs analysis of precedent.  
Prerequisites: Arch 320(P).  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 420 Architectural Design II  
6 cr. Undergraduate.  
Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.  
Prerequisites: Arch 410(P).  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 497 Study Abroad:  
3-12 cr. Undergraduate.  
Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.  
Prerequisites: acceptance to Level 2 or arch studies minor & Study Abroad Program.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 510 Survey of Structural Analysis and Design  
3 cr. Undergraduate/Graduate.  
Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 510G Survey of Structural Analysis and Design  
3 cr. Undergraduate/Graduate.  
Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 516 Building Construction  
3 cr. Undergraduate/Graduate.  
Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.  
Prerequisites: sr st; Arch 301(P) & Arch 410(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 516G Building Construction  
3 cr. Undergraduate/Graduate.  
Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.  
Prerequisites: sr st; Arch 301(P) & Arch 410(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 520 Environmental Systems: Illumination and Thermal Comfort  
3 cr. Undergraduate/Graduate.  
The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.  
Prerequisites: sr st, Arch 301(P) & 303(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 520G Environmental Systems: Illumination and Thermal Comfort  
3 cr. Undergraduate/Graduate.  
The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.  
Prerequisites: sr st, Arch 301(P) & 303(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 521 Environmental Systems: Resources-Fluid Distribution Systems  
3 cr. Undergraduate/Graduate.  
Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.  
Prerequisites: sr st & Arch 303(P); or grad st.  
Last Taught: Spring 2017, Spring 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 521G Environmental Systems: Resources-Fluid Distribution Systems
3 cr. Undergraduate/Graduate.
Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.
Prerequisites: sr st; Arch 300(P).
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 522 Environmental Systems: Lighting and Acoustical Design
3 cr. Undergraduate/Graduate.
The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.
Prerequisites: sr st & Arch 303(P); or grad st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 522G Environmental Systems: Lighting and Acoustical Design
3 cr. Undergraduate/Graduate.
The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.
Prerequisites: sr st & Arch 303(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 533 Topics in Architectural Theory:
3 cr. Undergraduate/Graduate.
This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.
Prerequisites: sr st or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 533G Topics in Architectural Theory:
3 cr. Undergraduate/Graduate.
This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.
Prerequisites: sr st or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 534 Field Study:
3 cr. Undergraduate/Graduate.
Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.
Prerequisites: jr st; Arch 300(P).
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2017, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 534G Field Study:
3 cr. Undergraduate/Graduate.
Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.
Prerequisites: jr st; Arch 300(P).
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2017, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 550 Seminar in Building Types and Settings
3 cr. Undergraduate/Graduate.
Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.
Prerequisites: sr st, & Arch 300(P) or 302(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 550G Seminar in Building Types and Settings
3 cr. Undergraduate/Graduate.
Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.
Prerequisites: sr st, & Arch 300(P) or 302(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 551 American Vernacular Architecture
3 cr. Undergraduate/Graduate.
Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.
Prerequisites: sr st & Arch 300(P); or grad st.
Last Taught: Summer 2016, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 551G American Vernacular Architecture
3 cr. Undergraduate/Graduate.
Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.
Prerequisites: sr st & Arch 300(P); or grad st.
Last Taught: Summer 2016, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 553 Vernacular Buildings and Groupings
3 cr. Undergraduate/Graduate.
Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.
Prerequisites: sr st & Arch 302(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 553G Vernacular Buildings and Groupings
3 cr. Undergraduate/Graduate.
Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.
Prerequisites: sr st & Arch 302(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 560 Introduction to Historic Preservation  
3 cr. Undergraduate/Graduate.  
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.  
Prerequisites: sr st & Arch 300(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 560G Introduction to Historic Preservation  
3 cr. Undergraduate/Graduate.  
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.  
Prerequisites: sr st & Arch 300(P); or grad st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 561 Measured Drawing for Architects  
3 cr. Undergraduate/Graduate.  
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Last Taught: Summer 2019, Summer 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 561G Measured Drawing for Architects  
3 cr. Undergraduate/Graduate.  
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Last Taught: Summer 2019, Summer 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 562 Preservation Technology Laboratory  
3 cr. Undergraduate/Graduate.  
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Last Taught: Summer 2017, Summer 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 562G Preservation Technology Laboratory  
3 cr. Undergraduate/Graduate.  
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Last Taught: Summer 2017, Summer 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 580 Graphic Techniques for Architects  
3 cr. Undergraduate/Graduate.  
Architectural presentation techniques focusing on the application of various graphic media including color pencil, pastel, watercolor, marker, and air-brush.  
Prerequisites: sr st & acceptance to level 2; or grad st.  
Last Taught: Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 580G Graphic Techniques for Architects  
3 cr. Undergraduate/Graduate.  
Architectural presentation techniques focusing on the application of various graphic media including color pencil, pastel, watercolor, marker, and air-brush.  
Prerequisites: sr st & acceptance to level 2; or grad st.  
Last Taught: Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 581 Law and Professional Practice for Architects  
3 cr. Undergraduate/Graduate.  
An introduction to architectural practice; content includes office procedures, contract management, legal constraints.  
Prerequisites: sr st & acceptance to level 2 or arch studies minor; or grad st.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 581G Law and Professional Practice for Architects  
3 cr. Undergraduate/Graduate.  
An introduction to architectural practice; content includes office procedures, contract management, legal constraints.  
Prerequisites: jr st & acceptance to Level 2 or arch studies minor; or grad st.  
Course Rules: May be retaken w/ change in topic to a max of 9 cr.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 583 Emerging Digital Technology  
3 cr. Undergraduate/Graduate.  
Laboratory focusing on the theory and application of emerging digital tools to contemporary problems of architectural design and professional practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required.  
Prerequisites: jr st & acceptance to Level 2 or arch studies minor; or grad st.  
Course Rules: May be retaken w/ change in topic to a max of 9 cr.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 583G Emerging Digital Technology  
3 cr. Undergraduate/Graduate.  
Laboratory focusing on the theory and application of emerging digital tools to contemporary problems of architectural design and professional practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required.  
Prerequisites: jr st & acceptance to Level 2 or arch studies minor; or grad st.  
Course Rules: May be retaken w/ change in topic to a max of 9 cr.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  
ARCH 584 Urban Landscape Architecture  
3 cr. Undergraduate/Graduate.  
Study of historic and contemporary exterior urban space, urban site planning methodology; design and detailing of exterior urban space; pedestrian and vehicular movement; use of plant materials.  
Prerequisites: sr st & acceptance to level 2 or arch studies minor; or grad st.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 584G Urban Landscape Architecture 3 cr. Undergraduate/Graduate.
Study of historic and contemporary exterior urban space, urban site planning methodology; design and detailing of exterior urban space; pedestrian and vehicular movement; use of plant materials.
Prerequisites: sr st & acceptance to Level 2 or arch studies minor; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 585 Research Methods in Architecture 3 cr. Undergraduate/Graduate.
Review of various data collection and analysis methods used in architectural research and design; exploration of the epistemological foundations of our knowledge about the built environment.
Prerequisites: sr st & acceptance to Level 2; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 585G Research Methods in Architecture 3 cr. Undergraduate/Graduate.
Review of various data collection and analysis methods used in architectural research and design; exploration of the epistemological foundations of our knowledge about the built environment.
Prerequisites: sr st & acceptance to Level 2; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 586 Programming for Architectural Design 3 cr. Undergraduate/Graduate.
Analysis and development of architectural programs: goals, user requirements, socio-cultural determinants, design criteria, site selection and analysis, building type analysis, code analysis, and cost projections.
Prerequisites: sr st & Arch 302(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 586G Programming for Architectural Design 3 cr. Undergraduate/Graduate.
Analysis and development of architectural programs: goals, user requirements, socio-cultural determinants, design criteria, site selection and analysis, building type analysis, code analysis, and cost projections.
Prerequisites: sr st & Arch 302(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 587 Post-Occupancy Evaluation of Built Environments 3 cr. Undergraduate/Graduate.
Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment.
Prerequisites: sr st & Arch 302(P); or grad st.
Last Taught: Fall 2011, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 587G Post-Occupancy Evaluation of Built Environments 3 cr. Undergraduate/Graduate.
Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment.
Prerequisites: sr st & Arch 302(P); or grad st.
Last Taught: Fall 2011, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 585 Intermediate Design Studio: 6 cr. Undergraduate.
Intermediate concepts and methods of architectural design relevant to contemporary theory and practice.
Prerequisites: Arch 420(P).
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 716 Art of Detailing 3 cr. Graduate.
Seminar/workshop dealing with creative aspects of architectural construction technology. Building details are analyzed with respect to technical appropriateness, durability, context and design consequences.
Prerequisites: grad st; Arch 516(P) & 1 600 or above level studio; Arch 501(R) or 510(R).
Last Taught: Spring 2020, Spring 2019, Spring 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 723 Fundamentals of Ecological Architecture 3 cr. Graduate.
Investigation of the ecological issues affecting an architectural design process that aims to produce buildings, landscapes and cities with minimal demands on the environment.
Prerequisites: grad st. Counts as repeat of ARCH 790 with same title.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 749 Urban Design as Public Policy 3 cr. Graduate.
Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in UrbPlan 857 which is identical to Arch 749.
Last Taught: Fall 2019, Fall 2015, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 750 Proseminar in Environment Design Research 3 cr. Graduate.
Intensive review of important findings in environmental design from research and professional literature and analysis of impacts on the built environment.
Prerequisites: grad st; Arch 585(C), or cons instr.
Last Taught: Fall 2019, Spring 2019, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 751 Theories of Environment Design Research 3 cr. Graduate.
Systematic review and critique of the major concepts, models, and theories of environmental design; their adequacy relative to current data; needed tests; applicability to environmental policy, planning, and design.
Prerequisites: grad st; Arch 750(P); UrbPlan 740(P) or equiv; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 760 History of Building Technology
3 cr. Graduate.
An examination of evolving technology in architecture from antiquity to the mid-twentieth century, concentrating on examples in the united states; includes field trips.
Prerequisites: grad st; Arch 300.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 780 The Built Environment and Real Estate Development
3 cr. Graduate.
A course providing an understanding of the relationships between economics and architectural design and skills in manipulation of variables in both areas on real projects.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 782 Visualization 1
3 cr. Graduate.
Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 783 Visualization 2
3 cr. Graduate.
Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.
Prerequisites: grad st; Arch 782(P)
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 785 Advanced Research Methods in Architecture
3 cr. Graduate.
Advanced treatment of existing and emerging qualitative and quantitative research and analysis methods, including research designs, scholarly, structural, field, survey, experimental and multivariate methods.
Prerequisites: grad st; Arch 585; UrbPlan 740 or equiv or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 788 Green Building Seminar
3 cr. Graduate.
Investigation and research into the environmental and architectural opportunities and constraints of building and landscape materials.
Prerequisites: grad st. Counts as repeat of ARCH 790 with same title.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 790 Special Topics:
1-3 cr. Graduate.
Development and presentation of new material on an experimental, one-term basis. Specific cr & any additional prereqs announced in schedule of classes whenever course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 791 Master's Level Directed Research
1-3 cr. Graduate.
Student participation in research projects under faculty supervision.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 3 cr max.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 792 Master's Level Independent Studies and Research
1-3 cr. Graduate.
Independent investigation of issues related to architecture.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 794 Pre-Thesis or Master's Project Research
3 cr. Graduate.
Background preparation and research completed prior to master's thesis or project.
Prerequisites: grad st; eligibility for thesis or master's project next semester.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 797 Study Abroad:
3-12 cr. Graduate.
Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.
Prerequisites: grad st; acceptance to Study Abroad Program.
Course Rules: Retakable to 12 cr max w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 810 Architectural Design I
6 cr. Graduate.
This design studio introduces students to theories and methodologies of architectural design. Design projects explore various design procedures, graphic techniques, and building tectonics.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 820 Architectural Design II
6 cr. Graduate.
This design studio further develops the theories and methodologies of architectural design. Design projects emphasize specific issues of theory, structure, context, program, and graphic communication.
Prerequisites: grad st; Arch 810(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 825 Comprehensive Design Studio:
6 cr. Graduate.
Advanced design studio emphasizing schematic design to detailed development of programmatic spaces, structural and environmental systems, life-safety provisions, wall sections, and building materials and assemblies.
Prerequisites: grad st & Arch 516(C).
Course Rules: Retakeable w/ chg in topic to 12 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ARCH 850 Advanced Design Studio:
6 cr. Graduate.
This studio emphasizes advanced concepts and methods of architectural design relevant to contemporary theory and practice. Retakeable with change in topic to max of 18 cr.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 3 cr max. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 890 Master's Thesis
6 cr. Graduate.
Production of a written thesis under the supervision of a faculty committee selected by student.
Prerequisites: grad st; cons advisor; cons chair if taken before final semester.
Last Taught: Spring 2017, Spring 2015, Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 891 Master's Project
6 cr. Graduate.
Production of an independent design project under the supervision of a faculty committee selected by student.
Prerequisites: grad st; cons advisor; cons chair if taken before final semester.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 990 Doctoral Dissertation
3-12 cr. Graduate.
Research toward the completion of the PhD dissertation under the direction of the candidate’s dissertation chair and committee.
Prerequisites: grad st; admis to candidacy for the PhD; & cons PhD prog comm.
Course Rules: May be retaken.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 991 Doctoral Level Research
1-3 cr. Graduate.
Research work for doctoral students in Architecture.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 12 cr max.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ARCH 992 Doctoral Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising professor.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Art and Design (ART)

ART 100 American Art and Culture
3 cr. Undergraduate.
Prerequisites: none.
Course Rules: Not open for cr or enrollment to Art & Art Educ majors.
General Education Requirements: A, CD
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 101 Drawing I
3 cr. Undergraduate.
Exploration of drawing materials, methods, concepts and expression based on visual observation.
Prerequisites: Art major or minor.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 105 Art & Design Lecture Series
3 cr. Undergraduate.
Introduction to contemporary art and design as presented through artist lecture series; addresses themes of form, function, criticism and audience relative to contemporary art practice.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 106 Art Survey
3 cr. Undergraduate.
Introduction to the visual arts disciplines and contemporary critical concerns. Course themes investigate inter-relations between technical process and expressive intent.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 107 Art Explorations:
3 cr. Undergraduate.
Special topic course in Art and Design for non-art majors.
Prerequisites: none.
Course Rules: May be retaken with change in topic to 6 cr max. Not open to Art & Art Ed majors.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

ART 108 2D Concepts
3 cr. Undergraduate.
An introduction to visual problem solving. Organization of the two-dimensional plane using the elements and principles of design. Includes the study of black and white and the basics of color.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 101 3D Concepts
3 cr. Undergraduate.
An introduction to three-dimensional design through constructed surface and form studies, tool usage and fabrication techniques.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 118 Digital Arts: Culture, Theory, Practice
3 cr. Undergraduate.
Introduction to electronic art and imaging. Focus on historical and cultural contexts, theoretical concepts and studio skills using imaging software.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 124 Design Survey
3 cr. Undergraduate.
Survey of design disciplines and movements of the 19th, 20th and 21st centuries. Slide lectures include industrial design, architecture, graphic design, and design movements.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course. Jointly offered with & counts as repeat of Film 150.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

ART 152 Photography Survey
3 cr. Undergraduate.
Survey of photographic processes and movements of the 19th, 20th, and 21st centuries, with emphasis on historical and cultural contexts that shaped the application of the medium.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 201 Drawing II
3 cr. Undergraduate.
Expanded development of drawing materials, methods and expression; focus on conceptual and perceptual process.
Prerequisites: Art 101(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 207 Undergraduate Research Assistantship in Art and Design
1-3 cr. Undergraduate.
An opportunity for freshmen and sophomores to work collaboratively with an Art and Design faculty member on a specific and sustained research project.
Prerequisites: admits to First Year Prog or Art & Design, & cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 208 Color Studio
3 cr. Undergraduate.
Expanded exploration of the art and science of color for studio media; focus on pigment, screen and digital output.
Prerequisites: Art 101(P), 108(P); or cons instr.
Last Taught: UWinteriM 2015, Summer 2013, Fall 2011, UWinteriM 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 212 Introduction to Digital Studio: A/V Strategies
3 cr. Undergraduate.
Introduction to time based technologies for artists and designers; includes audio, video, and animation techniques. Surround sound, lighting, green screen, and visual effects are examined.
Prerequisites: Art 101(P), 108(P), & 118(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test, or cons instr
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 218 2D Design Strategies
3 cr. Undergraduate.
Introduction to problem solving using the basics of drawing and elements & principles of design; includes composition & color theory.
Prerequisites: none.
Course Rules: Not open to Art & Design and Art Ed majors.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 221 Introduction to Design
3 cr. Undergraduate.
Introduction to computer as design and production tool for graphic design, use software to create graphics, edit images and design complex layouts.
Prerequisites: Art 101(P), 106(P), 108(P), & 118(P); or admis to Inter-Arts/IAT prog & Art 118(P); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 223 Introduction to Typography
3 cr. Undergraduate.
Introduction to the fundamentals of designing with type; emphasis on formal design skills, type history, conceptual problem-solving.
Prerequisites: Art 101(P), 106(P), 108(P), 109(P), 118(P) & 221(C); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 224 Dynamic Typography  
3 cr. Undergraduate.  
Fundamentals of designing with type; emphasis on formal design skills, conceptual problem solving. Focus on screen-based projects and type in motion, some print design.  
Prerequisites: Art 101(P), 108(P), & 118(P); or pre-Inter-Arts/IAT prog; Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 227 Design Workshop:  
3 cr. Undergraduate.  
A concept oriented workshop in graphic design.  
Prerequisites: see Schedule of Classes. Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.  
Course Rules: May be retaken w/chg in topic to max of 6 cr.  
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 231 Introduction to Fibers  
3 cr. Undergraduate.  
Introduction to fiber materials and processes and contemporary aesthetic consideration in fiber arts.  
Prerequisites: Art 101(P), & 108(P) or 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 238 Fiber Workshop:  
3 cr. Undergraduate.  
Special topics course in fibers.  
Prerequisites: see Schedule of Classes; or cons instr.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 243 Introduction to Painting  
3 cr. Undergraduate.  
Exploration of oil painting medium including color and construction of pictorial space. Work primarily from observation, investigating range of motifs and personal content.  
Prerequisites: Art 101(P), 106(P), & 108(P); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 249 Painting and Drawing Workshop:  
1-3 cr. Undergraduate.  
Special topic course in painting and drawing.  
Prerequisites: admis to Art and Design Prog.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 253 Introduction to Photography  
3 cr. Undergraduate.  
Fundamental aesthetics/techniques of darkroom/digital photography using digital cameras & 35mm SLR film cameras; focus on camera operation, image exposure, printing practice for b/w compositions.  
Prerequisites: Art 108(P), or 118(P), or 152(P), or Film 117(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 259 Beginning Photographic Workshop:  
1-3 cr. Undergraduate.  
Beginning special topic workshop course in photography.  
Prerequisites: admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2015, Fall 2014, UWinteriM 2013, Summer 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 261 Introduction to Sculpture  
3 cr. Undergraduate.  
Basic experiences in various sculpture media with an emphasis on the aesthetic interrelationship of techniques and concept.  
Prerequisites: Art 101(P), 106(P) & 109(P); Math 102(C), 103(C), 105(C), or 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 269 Sculpture Workshop:  
1-3 cr. Undergraduate.  
A short term, special topic workshop in sculpture.  
Prerequisites: see Schedule of Classes.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 271 Introduction to Jewelry and Metalsmithing  
3 cr. Undergraduate.  
Introduction to major aspects of metalworking and jewelry. Develop design skills and technical competency and explore metalsmithing as an art form. Outside class work required.  
Prerequisites: Art 101(P), 106(P) & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ART 277 Design for Digital Fabrication  
3 cr. Undergraduate.  
Introduction digital design, drawing and fabrication using 3D modeling software and output devices such as 3D printers and laser cutters.  
Prerequisites: Art 118(P) or equiv; or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/
ART 278 Introduction to Industrial Craft
3 cr. Undergraduate.
Introduction to fabrication methods, materials and techniques for problem-solving in the design of physical objects.
Prerequisites: Art 277(C), Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 279 Jewelry and Metalsmithing Workshop:
1-3 cr. Undergraduate.
Special topics workshop in jewelry and metalsmithing.
Prerequisites: see Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 281 Introduction to Ceramics
3 cr. Undergraduate.
Handbuilding, surface embellishment and glazing of functional and sculptural ceramic forms. Slide lectures of historical and contemporary approaches to the medium.
Prerequisites: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 289 Ceramics Workshop:
1-3 cr. Undergraduate.
A short term, special topic workshop in ceramics.
Prerequisites: see Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2019, Fall 2015, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 291 Introduction to Print and Narrative Forms
3 cr. Undergraduate.
Introduction to basic studio practices, skills, and materials including plates, presses, inks, and image processing.
Prerequisites: Art 101(P), 106(P), & 108(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 297 Study Abroad:
1-12 cr. Undergraduate.
Studio and special problems designed to provide relevant course work for a study abroad in the visual arts.
Prerequisites: admis to Art and Design Prog; acceptance in Study Abroad Prog.
Course Rules: May be retaken with topic change.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 299 Printmaking Workshop:
3 cr. Undergraduate.
A special topic workshop in Print & Narrative Forms.
Prerequisites: see Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Summer 2012, Summer 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 302 Art and Design Workshop:
3 cr. Undergraduate/Graduate.
Special topic course in Art and Design.
Prerequisites: jr st, & admis to Art and Design prog or to IAT; or grad st.
Course Rules: May be retaken with topic change to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 302G Art and Design Workshop:
3 cr. Undergraduate/Graduate.
Special topic course in Art and Design.
Prerequisites: jr st, & admis to Art and Design prog or to IAT; or grad st.
Course Rules: May be retaken with topic change to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 306 Introduction to Community Art
3 cr. Undergraduate.
Study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.
Prerequisites: admis to Art & Design, Multicultural America 150(P) (in any area) or AR TED 227(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 309 Issues in Contemporary Art:
3 cr. Undergraduate.
Lecture course focused on critical issues/theory in contemporary art and culture.
Prerequisites: soph st or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

ART 312 Intermediate Digital Studio
3 cr. Undergraduate/Graduate.
Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; & Art 212(P) or Film 222(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 312G Intermediate Digital Studio
3 cr. Undergraduate/Graduate.
Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; & Art 212(P) or Film 222(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 313 Programming for Artists I
3 cr. Undergraduate/Graduate.
An introduction to principles and applications of computer programming languages within art practice.
Prerequisites: jr st, admis to IAT prog or Visual Art prog, & Art 118(P); or grad st; or cons instr.
Course Rules: Art 313 & FineArt 313 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 313G Programming for Artists I
3 cr. Undergraduate/Graduate.
An introduction to principles and applications of computer programming languages within art practice.
Prerequisites: jr st, admis to IAT prog or Visual Art prog, & Art 118(P); or grad st; or cons instr.
Course Rules: Art 313 & FineArt 313 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 314 Digital Painting
3 cr. Undergraduate.
Use image-editing/painting software and tablets to generate digital paintings. Traditional rendering techniques will be considered along with color and kinetic concepts.
Prerequisites: soph st & Art 118 (P); or cons instr.
Course Rules: Counts as repeat of Art 302 w/same topic.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 315 Participatory Art and Social Practice
3 cr. Undergraduate/Graduate.
Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work.
Prerequisites: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
Course Rules: Counts as repeat of Art 327 w/similar topic.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 315G Participatory Art and Social Practice
3 cr. Undergraduate/Graduate.
Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work.
Prerequisites: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
Course Rules: Counts as repeat of Art 327 w/similar topic.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 316 Interactive and Multimedia Art
3 cr. Undergraduate/Graduate.
An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies.
Prerequisites: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
Course Rules: Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 316G Interactive and Multimedia Art
3 cr. Undergraduate/Graduate.
An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies.
Prerequisites: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
Course Rules: Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 317 3D Imaging I
3 cr. Undergraduate/Graduate.
An introduction to 3D imaging techniques and applications.
Prerequisites: jr st; admis to Art and Design prog or Inter-Arts/IAT prog; grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 317G 3D Imaging I
3 cr. Undergraduate/Graduate.
An introduction to 3D imaging techniques and applications.
Prerequisites: jr st; admis to Art and Design prog or Inter-Arts/IAT prog; grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 318 Electronics and Sculpture
3 cr. Undergraduate.
Art production using interactive systems such as sensors, microcontrollers, motors, lights.
Prerequisites: Admis to Art and Design prog or IAT prog; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 319 Hybrid Sculptural Forms:
3 cr. Undergraduate.
Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art.
Prerequisites: Admis to Art and Design prog or Inter-Arts/IAT prog; & Art 118(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max. Art 319 & FineArt 319 are jointly offered & count as repeats of each other.
Last Taught: Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 321 Design and Visual Communication I
3 cr. Undergraduate.
Basic forms and concepts for design and visual communication.
Basic professional and academic concepts explored through studio assignments, lectures and readings.
Prerequisites: admis to Art and Design prog. grade of B- or better in Art 223(229)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 322 Topics in Illustration:
3 cr. Undergraduate.
Application of design and media skills to illustration problems.
Interrelation of image and typography in various graphic forms.
Prerequisites: soph st & admis to Art and Design Prog; or cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 323 Typography II
3 cr. Undergraduate.
Continuation of Art 223; more advanced application of typography in categories of informational and publication design; emphasis on contemporary typographic concepts and designs.
Prerequisites: grade of B- or better in Art 321(229)(P); 3 cr min Graphic Design expanded studies (grade of C or better).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 324 Web Design
3 cr. Undergraduate.
Introduction to design for the Internet: information architecture, hypertextuality, creative and client-based sites, critical issues of Internet culture; fundamentals of markup languages, CSS, and software.
Prerequisites: admis to Art and Design prog or pre-Inter-Arts/IAT prog, & Art 118(P); or grad st; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 325 Web Design II
3 cr. Undergraduate.
Exploration of responsive design using HTML, CSS and prototyping tools/ frameworks; focus on design for usability across devices.
Prerequisites: admis to Art and Design prog or Inter-Arts/IAT prog, & Art 324(P); or grad st; or cons instr.
Last Taught: Fall 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 327 Digital Media Workshop:
3 cr. Undergraduate.
A concept oriented workshop in digital media.
Prerequisites: soph st, admis to Visual Art prog or Inter-Arts/IAT prog, or cons instr. See Schedule of Classes for additional prereq.
Course Rules: FineArt 327(351) & Art 327 are jointly offered & count as repeats of each other. May be retaken w/chg in topic to 6 cr max.
Last Taught: Summer 2020, Spring 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 332 Woven Structure I
3 cr. Undergraduate.
Contemporary concepts in weaving using various materials and loom techniques.
Prerequisites: Admis to Art and Design Prog & Art 231(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 333 Pliable Materials/Sculptural Forms
3 cr. Undergraduate.
Contemporary concepts in fiber construction using various materials & hand construction techniques.
Prerequisites: Admis to Art and Design Prog & Art 231(P); or cons instr.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 336 Print, Paint and Dye on Fabric
3 cr. Undergraduate.
Batik, tie-die and direct application of dyes and pigments on textiles.
Prerequisites: admis to Art and Design Prog & Art 231(P); or cons instr.
Last Taught: Fall 2019, Spring 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 337 Screen Printing on Fabric
3 cr. Undergraduate.
Design and repeat pattern through the screen printing process on textiles.
Use of dyes and pigments, stencil design and cloth construction.
Prerequisites: admis to Art and Design Prog & Art 231(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 342 Introduction to Figure Drawing
3 cr. Undergraduate.
Exploration of the figure through traditional and contemporary interpretations using a variety of drawing mediums.
Prerequisites: Art 101(P), 201(102)(P), 106(P), & 108(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 343 Figure Painting
3 cr. Undergraduate.
Traditional and contemporary approaches to figurative painting explored through art historical examples, expanded media/techniques and the development of personal direction.
Prerequisites: Art 342(P) & 243(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 344 Watercolor
3 cr. Undergraduate.
Painting in transparent watercolor. Introduction to basic principles and techniques.
Prerequisites: admis to Art and Design prog.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 347G Reading Works of Art
3 cr. Undergraduate/Graduate.
An advanced course in the visual 'reading' of works of art from the artists' point of view. Course includes slide lecture, with discussion. Student presentation required.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 347G Reading Works of Art
3 cr. Undergraduate/Graduate.
An advanced course in the visual 'reading' of works of art from the artists' point of view. Course includes slide lecture, with discussion. Student presentation required.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 350 Visualizing Ideas in Photography
3 cr. Undergraduate.
Critical theory and practices in photography, along with the aesthetic and technical challenges of digital photography and color capture, concentrating on camera operation, digital workflow practice and digital printing.
Prerequisites: Art 108(P), 118(P) or FILM 117(P); & Art 253(P), 212(P), 221(P) or 291(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 357 Studio Lighting & Digital Imaging
3 cr. Undergraduate/Graduate.
Aesthetic and technical challenges of lighting in the studio and other locations, along with an introduction to digital imaging strategies for photographers.
Prerequisites: ART 118(P) or FILM 117 (P), and ART 253(P), ART 212(P), or ART 221(P); or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 357G Studio Lighting & Digital Imaging
3 cr. Undergraduate/Graduate.
Aesthetic and technical challenges of lighting in the studio and other locations, along with an introduction to digital imaging strategies for photographers.
Prerequisites: ART 118(P) or FILM 117 (P), and ART 253(P), ART 212(P), or ART 221(P); or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 358 Medium and Large Format Photography
3 cr. Undergraduate/Graduate.
Aesthetic and technical challenges of analog photography with medium and large format cameras, addressing image pre-visualization, image scale, contrast control, photographic developers, scanning, paper surfaces, and fine art printing.
Prerequisites: jr st & Art 253(P) or Film 117(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253(P); or grad st; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 358G Medium and Large Format Photography
3 cr. Undergraduate/Graduate.
Aesthetic and technical challenges of analog photography with medium and large format cameras, addressing image pre-visualization, image scale, contrast control, photographic developers, scanning, paper surfaces, and fine art printing.
Prerequisites: jr st & Art 253(P) or Film 117(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253(P); or grad st; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 359 Intermediate Photography Workshop:
1-3 cr. Undergraduate.
Intermediate special topic workshop course in photography.
Prerequisites: soph st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 363 Form and Materials
3 cr. Undergraduate.
Intermediate level experiences in an expanding range of sculpture processes. Development of expressive awareness through lectures, critiques, discussion and demonstrations.
Prerequisites: admis to Art and Design prog & Art 261(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 364 Sculpture II
3 cr. Undergraduate.
Continuation of Art 363.
Prerequisites: Art 363(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 365 Foundry Techniques
3 cr. Undergraduate.
Basic and advanced techniques using new and traditional moldmaking technologies. Fields trips to iron pours and conferences when possible.
Prerequisites: admis to Art and Design prog & Art 261(P).
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 366 Between Painting and Sculpture
3 cr. Undergraduate/Graduate.
A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.
Prerequisites: jr st; Art 261 (P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 366G Between Painting and Sculpture
3 cr. Undergraduate/Graduate.
A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.
Prerequisites: jr st; Art 261 (P).
Current Offerings: https://catalog.uwm.edu/course-search/
ART 368 Sculptural Practices:
3 cr. Undergraduate.
Intermediate level course in specialized sculpture processes & skills.
Prerequisites: admis to Visual Art prog & Art 261(P).
Course Rules: May be retaken w/chg in topic to 15 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 369 Sculpture Workshop:
3 cr. Undergraduate.
A special topic workshop in sculpture.
Prerequisites: admis to Art and Design prog & Art 271(P).
Course Rules: May be retaken w/chg in topic change to 6 cr max.
Last Taught: Fall 2014, Fall 2013, UWinteriM 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 371 Construction and Fabrication in Jewelry and Metalsmithing
3 cr. Undergraduate.
Exploration of construction and fabrication methods and expansion of the aesthetic, physical, functional and cultural vocabulary of specific metalsmithing techniques. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Last Taught: Fall 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 372 The Multiple in Jewelry and Metalsmithing
3 cr. Undergraduate.
Introduces formal and conceptual issues associated with multiples as an art making strategy, using traditional and experimental casting processes. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 378 Industrial Processes and Fabrication
3 cr. Undergraduate/Graduate.
Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory.
Prerequisites: Art 261(P), or Art 271(P), or Art 278(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 378G Industrial Processes and Fabrication
3 cr. Undergraduate/Graduate.
Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory.
Prerequisites: Art 261(P), or Art 271(P), or Art 278(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 379 Jewelry and Metalsmithing Workshop:
1-3 cr. Undergraduate.
Special topics workshop in jewelry and metalsmithing.
Prerequisites: admis to Art and Design prog & Art 271(P).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2014, Summer 2014, Summer 2013, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 381 Throwing and Wheel Construction
3 cr. Undergraduate.
Introduction to the potter’s wheel as a forming tool, including integration of hand built and wheel thrown forms, and basic glaze formulation.
Prerequisites: admis to Art and Design prog & Art 281(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 382 Building from the Figure in Clay
3 cr. Undergraduate.
Human form in clay through observation, drawing and modeling using a variety of ceramic construction methods. Individual conceptual and expressive approaches emphasized.
Prerequisites: Admis to Art and Design prog & Art 281(P); or cons instr.
Last Taught: Fall 2017, Fall 2018, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 383 Molds and Multiples in Ceramics
3 cr. Undergraduate.
Moldmaking for ceramics focusing on plaster molds. Press molds and slip casting methods for replication of forms in series, and issues of multiplicity are addressed.
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 384 Experimental Processes in Woodfiring I
3 cr. Undergraduate.
Contemporary approaches to the ancient process of woodfiring. Development of personal aesthetic using woodfiring effects on functional and sculptural work. Technical research, firing participation required.
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 389 Ceramics Workshop:
1-3 cr. Undergraduate.
A short term special topic workshop in ceramics.
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 391 Intermediate Print & Narrative Forms:
3 cr. Undergraduate.
Continuation of Print and Narrative Forms with focused studio investigations in specialized print media and book arts techniques.
Prerequisites: ART 201(P), ART 221(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 392 Lithography
3 cr. Undergraduate/Graduate.
Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography.
Prerequisites: ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 392G Lithography
3 cr. Undergraduate/Graduate.
Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography.
Prerequisites: ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 393 Digital Printmaking
3 cr. Undergraduate.
A studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics.
Prerequisites: admis to Art and Design prog & Art 291(P), 221(P), or 253(P); or admis to Inter-Arts/IAT; or cons instr.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 394 Intaglio
3 cr. Undergraduate/Graduate.
Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept.
Prerequisites: ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 394G Intaglio
3 cr. Undergraduate/Graduate.
Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept.
Prerequisites: ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 396 Screenprinting
3 cr. Undergraduate/Graduate.
Screen-print process using the photo-stencil to reproduce hand-drawn and computer manipulated marks and images; printing skills, experimentation with materials and multiple reproduction.
Prerequisites: ART 221(P), ART 231(P), ART 253(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 397 Book Arts Workshop: 1-3 cr. Undergraduate/Graduate.
Special topic course in Art and Design. Special topic course in Art and Design.
Prerequisites: jr st & admis to Art and Design prog; or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic change to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 397G Book Arts Workshop:
3 cr. Undergraduate/Graduate.
Studio work exploring traditional and experimental book structures. Media/content focus variable to include array of relevant topics.
Prerequisites: jr st; or grad st; or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 398 Photo Printmaking
3 cr. Undergraduate.
Studio practice in the use of photo-sensitized plates, various printmaking processes (intaglio, lithography, relief) with emphasis on multiple plate color printing.
Prerequisites: admis to Art and Design prog & Art 291(P) or 253(P).
Last Taught: Fall 2014, Fall 2012, Fall 2010, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 402 Art and Design Workshop: 1-3 cr. Undergraduate/Graduate.
Special topic course in Art and Design. Special topic course in Art and Design.
Prerequisites: jr st & admis to Art and Design prog; or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic change to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 402G Art and Design Workshop:
1-3 cr. Undergraduate/Graduate.
Special topic course in Art and Design. Special topic course in Art and Design.
Prerequisites: jr st & admis to Art and Design prog; or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic change to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 405 Product Realization 3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. 2.5 hrs lecture.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: May be retaken with change of topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 405G Product Realization
3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. 2.5 hrs lecture.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 406 Community Arts II
3 cr. Undergraduate/Graduate.
Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.
Prerequisites: Art 306(P); or grad st; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 406G Community Arts II
3 cr. Undergraduate/Graduate.
Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.
Prerequisites: Art 306(P); or grad st; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 408 Nonprofit Information Technology
3 cr. Undergraduate.
Provides experiential project-based learning opportunities to UWM students while working on a technology project for a local nonprofit organization.
Prerequisites: none.
Course Rules: ART 408, DAC 408, and INFOST 408 are jointly offered and count as repeats of one another. Repeatable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 412 Advanced Digital Studio
3 cr. Undergraduate/Graduate.
An advanced, concept oriented studio course where students produce Digital Studio art.
Prerequisites: jr st, admis to Art & Design prog or IAT prog, & Art 312(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 412G Advanced Digital Studio
3 cr. Undergraduate/Graduate.
An advanced, concept oriented studio course where students produce Digital Studio art.
Prerequisites: jr st, admis to Art & Design prog or IAT prog, & Art 312(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 418 Advanced Electronics and Sculpture:
3 cr. Undergraduate/Graduate.
Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance.
Prerequisites: jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.
Course Rules: May be retaken/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 418G Advanced Electronics and Sculpture:
3 cr. Undergraduate/Graduate.
Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance.
Prerequisites: jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.
Course Rules: May be retaken/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 421 Design and Visual Communication II
3 cr. Undergraduate.
Intermediate level emphasizes a beginning professional synthesis of fundamentals of typography, symbol, image in comprehensive design projects.
Prerequisites: a grade of B- or better in ART 321(P) and ART 323(P); and a grade of C or better in at least 3 credits of Graphic Design expanded studies.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 422 Design Methodologies: Process, Communication & Theory
3 cr. Undergraduate.
Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields.
Prerequisites: Art 323(P) & successful completion of or exemption from a QL-A course; or cons instr.
General Education Requirements: QLB
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 423 Experimental Typography
3 cr. Undergraduate/Graduate.
Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia.
Prerequisites: junior standing and a grade of B- or higher in ART 223; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 423G Experimental Typography
3 cr. Undergraduate/Graduate.
Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia.
Prerequisites: junior standing and a grade of B- or higher in ART 223; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 424 Topics in Web, Interaction and Screen Design:
3 cr. Undergraduate.
Exploration of concepts and technologies in web, interaction and screen design. Topic and additional prerequisites will be published in Schedule of Classes; students must meet additional prereqs.
Prerequisites: jr st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 431G Special Topics in Fibers:
3 cr. Undergraduate/Graduate.
Advanced problem-solving working toward the development of cohesive body of work in non-loom construction.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2012, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 426 Motion Graphics
3 cr. Undergraduate/Graduate.
Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing).
Prerequisites: jr st & Art 118(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 426G Motion Graphics
3 cr. Undergraduate/Graduate.
Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing).
Prerequisites: jr st & Art 118(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 427 Advanced Design Workshop:
1-3 cr. Undergraduate/Graduate.
A short term, concept oriented workshop in graphic design.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 427G Advanced Design Workshop:
1-3 cr. Undergraduate/Graduate.
A short term, concept oriented workshop in graphic design.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 433 Digital Imaging for Fabric
3 cr. Undergraduate/Graduate.
Digital processes and screen-printing on textiles with an emphasis on individual expression.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 433G Digital Imaging for Fabric
3 cr. Undergraduate/Graduate.
Digital processes and screen-printing on textiles with an emphasis on individual expression.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 434 Fibers III-Weaving
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of weaving. Professional execution of work emphasized.
Prerequisites: jr st; Art 432(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 434G Fibers III-Weaving
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of weaving. Professional execution of work emphasized.
Prerequisites: jr st; Art 432(P).
Current Offerings: https://catalog.uwm.edu/course-search/
ART 435 Mixed Materials: Concept/Object
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized.
Prerequisites: jr st, Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 435G Mixed Materials: Concept/Object
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 436 Cloth Construction: Surface to Structure
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of fabric printing and construction.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 436G Cloth Construction: Surface to Structure
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of fabric printing and construction.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 438 Fiber Workshop:
3 cr. Undergraduate/Graduate.
A special topic course in fibers.
Prerequisites: See semester Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 438G Fiber Workshop:
3 cr. Undergraduate/Graduate.
A special topic course in fibers.
Prerequisites: See semester Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 441 Advanced Drawing Strategies I
3 cr. Undergraduate/Graduate.
Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work with both assigned and independently-conceived problems.
Prerequisites: jr st & Admis to Art and Design prog; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 441G Advanced Drawing Strategies I
3 cr. Undergraduate/Graduate.
Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work with both assigned and independently-conceived problems.
Prerequisites: jr st & Admis to Art and Design prog; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 442 Figure Drawing Explorations
3 cr. Undergraduate.
Focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.
Prerequisites: jr st, admis to Art and Design prog & Art 342(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 443 Painting Strategies
3 cr. Undergraduate.
Emphasis on painting concepts, problem solving, research, construction strategies and development of personal direction.
Prerequisites: jr st, admis to Art and Design prog & Art 343(P); or 243(P) & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 444 Watercolor
3 cr. Undergraduate.
Continuation of Art 344. Greater emphasis on individual development and experimental use of the medium.
Prerequisites: Art 344(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 447 Reading Works of Art
3 cr. Undergraduate.
Continuation of Art 347.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 447G Reading Works of Art
3 cr. Undergraduate/Graduate.
Continuation of Art 347.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 449 Painting And Drawing Workshop:
1-3 cr. Undergraduate/Graduate.
A short term, special topic course in painting and drawing. Additional prereqs may appear in the Schedule of Classes.
Prerequisites: jr st or writ cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 449G Painting And Drawing Workshop:
1-3 cr. Undergraduate/Graduate.
A short term, special topic course in painting and drawing. Additional prereqs may appear in the Schedule of Classes.
Prerequisites: jr st or wrt instrs.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 451 Special Topics in Photography:
3 cr. Undergraduate/Graduate.
Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, Art 253(P), Art 350(P) & adm of Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P) or Art 358(P); or grad st; or cons instr
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 451G Special Topics in Photography:
3 cr. Undergraduate/Graduate.
Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, Art 253(P), Art 350(P) & adm of Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P) or Art 358(P); or grad st; or cons instr
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 452 Contemporary Issues in Photography
3 cr. Undergraduate/Graduate.
Addresses critical issues, theory, and practices surrounding contemporary photography and how photographers have worked to challenge, expand, and reinvent the medium.
Prerequisites: junior standing or greater and completion of one of the following: ART 350(P), ART 357(P), or ART 358(P); or Art 212(P) & Art 312(P); or Art 221(P) & Art 321(P), & adm of Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 452G Contemporary Issues in Photography
3 cr. Undergraduate/Graduate.
Addresses critical issues, theory, and practices surrounding contemporary photography and how photographers have worked to challenge, expand, and reinvent the medium.
Prerequisites: junior standing or greater and completion of one of the following: ART 350(P), ART 357(P), or ART 358(P); or Art 212(P) & Art 312(P); or Art 221(P) & Art 321(P), & adm of Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 454 Narrative Photography
3 cr. Undergraduate/Graduate.
Investigation of contemporary and historical narrative strategies that range from documentary to tableau and move from single images to sequencing.
Prerequisites: junior standing or greater and completion of one of the following: ART 350(P), ART 357(P), or ART 358(P); or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 454G Narrative Photography
3 cr. Undergraduate/Graduate.
Investigation of contemporary and historical narrative strategies that range from documentary to tableau and move from single images to sequencing.
Prerequisites: junior standing or greater and completion of one of the following: ART 350(P), ART 357(P), or ART 358(P); or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 456 Advanced Digital Photography
3 cr. Undergraduate/Graduate.
Exploration of critical concepts through advanced digital color management, retouching, manipulation, compositing, image appropriation, and expanded media to include time-base media, emerging capture/output technologies and hybrid practices.
Prerequisites: jr st, Art 253(P) & Art 350(P) or Art 357(P); or Art 212(P) & Art 312(P); or Art 221(P) & Art 321(P), & adm to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P); or grad st; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 456G Advanced Digital Photography
3 cr. Undergraduate/Graduate.
Exploration of critical concepts through advanced digital color management, retouching, manipulation, compositing, image appropriation, and expanded media to include time-base media, emerging capture/output technologies and hybrid practices.
Prerequisites: jr st, Art 253(P) & Art 350(P) or Art 357(P); or Art 212(P) & Art 312(P); or Art 221(P) & Art 321(P), & adm to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P); or grad st; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 458 Photographic Materials and Processes
3 cr. Undergraduate/Graduate.
Exploration of experimental methods and aesthetics of the photograph as object from image capture to print, including darkroom manipulation, historical processes, hybrid practice, and alternative presentation strategies. Prereq: jr st, Art 253(P) & 350(P) or 358(P); or Art 291(P) & 391(P) or 392(P) or 393(P) or 394(P); or Art 212(P) & 312(P), & adm to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or 358(P) or 357(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 458G Photographic Materials and Processes
3 cr. Undergraduate/Graduate.
Exploration of experimental methods and aesthetics of the photograph as object from image capture to print, including darkroom manipulation, historical processes, hybrid practice, and alternative presentation strategies. Prereq: jr st, Art 253(P) & 350(P) or 358(P); or Art 291(P) & 391(P) or 392(P) or 393(P) or 394(P); or Art 212(P) & 312(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or 358(P) or 357(P); or grad st;
Current Offerings: https://catalog.uwm.edu/course-search/
Last Taught: Spring 2020.
ART 459 Advanced Photography Workshop:
1-3 cr. Undergraduate/Graduate.
Advanced special topic workshop course in photography.
Prerequisites: jr st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or gr st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 459G Advanced Photography Workshop:
1-3 cr. Undergraduate/Graduate.
Advanced special topic workshop course in photography.
Prerequisites: jr st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or gr st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 461 Structural Fabrication/Assembled Objects
3 cr. Undergraduate.
Exploration of welding processes, wood-working techniques, and mixed media assemblage.
Prerequisites: jr st, admis to Art and Design prog, & Art 261(P).
Last Taught: Fall 2010, Fall 2009, Fall 2008, Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 464 Contemporary Figure Sculpture
3 cr. Undergraduate.
Exploration and investigation of the human figure from live models. Includes study of anatomy and historical references.
Prerequisites: jr st, admis to Art and Design prog, & Art 261(P).
Current Offerings: https://catalog.uwm.edu/course-search/
ART 468 Advanced Sculptural Practices:
3 cr. Undergraduate/Graduate.
Advanced level course in specialized sculpture processes & skills.
Prerequisites: jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.
Course Rules: May be retaken w/chg in topic to 15 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 468G Advanced Sculptural Practices:
3 cr. Undergraduate/Graduate.
Advanced level course in specialized sculpture processes & skills.
Prerequisites: jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.
Course Rules: May be retaken w/chg in topic to 15 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 469 Sculpture Workshop:
1-3 cr. Undergraduate/Graduate.
A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester.
Prerequisites: jr standing or writ cons instr.
Course Rules: May be retaken w/chg in topic to a 6 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 469G Sculpture Workshop:
1-3 cr. Undergraduate/Graduate.
A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester.
Prerequisites: jr standing or writ cons instr.
Course Rules: May be retaken w/chg in topic to a 6 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 470 Metal Forming
3 cr. Undergraduate.
Development of technical competency in metal forming and angle raising through traditional and experimental processes. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design program and ART 271(P).
Course Rules: Repeatable to 6 cr max.
Last Taught: Spring 2020, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 472 Color on Metal
3 cr. Undergraduate.
Exploration of surface enrichment through vitreous enamel on metal and other traditional and experimental coloration techniques. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design program and ART 271(P).
Course Rules: Repeatable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 473 Special Topics in Jewelry and Metalsmithing:
3 cr. Undergraduate.
Specific topic and additional prerequisites will appear in Schedule of Classes each time the course is offered. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Course Rules: May be retaken w/chg in topic to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 474 Portfolio Development in Jewelry and Metallsmithing
3 cr. Undergraduate/Graduate.
Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio presentation. Four hours studio monitoring mandatory.
Prerequisites: jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 474G Portfolio Development in Jewelry and Metallsmithing
3 cr. Undergraduate/Graduate.
Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio presentation. Four hours studio monitoring mandatory.
Prerequisites: jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 478 Digital Fabrication and Craft
3 cr. Undergraduate/Graduate.
Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft. Four hours studio monitoring mandatory.
Prerequisites: Art 277(P) & 261; Art 277(P) & 271(P); Art 277(P) & 278; or grad st; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 478G Digital Fabrication and Craft
3 cr. Undergraduate/Graduate.
Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft. Four hours studio monitoring mandatory.
Prerequisites: Art 277(P) & 261; Art 277(P) & 271(P); Art 277(P) & 278; or grad st; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 479 Jewelry and Metallsmithing Workshop:
1-3 cr. Undergraduate/Graduate.
Special topics workshop in jewelry and metallsmithing.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 271(P); or grad st & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 479G Jewelry and Metallsmithing Workshop:
1-3 cr. Undergraduate/Graduate.
Special topics workshop in jewelry and metallsmithing.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 271(P); or grad st & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 481 Ceramics Special Topics and Portfolio I
3 cr. Undergraduate/Graduate.
Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 281(P); or cons instr; or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 481G Ceramics Special Topics and Portfolio I
3 cr. Undergraduate/Graduate.
Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 281(P); or cons instr; or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 482 Ceramics Special Topics and Portfolio II
3 cr. Undergraduate/Graduate.
Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st, & Art 481(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 482G Ceramics Special Topics and Portfolio II
3 cr. Undergraduate/Graduate.
Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st, & Art 481(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 483 Ceramics Special Topics and Portfolio III
3 cr. Undergraduate/Graduate.
Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st & Art 482(P); or grad st.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 483G Ceramics Special Topics and Portfolio III
3 cr. Undergraduate/Graduate.
Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st & Art 482(P); or grad st.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 489 Ceramics Workshop:
1-3 cr. Undergraduate/Graduate.
A short-term special topic course in ceramics.
Prerequisites: jr st & writ cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
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<th>Course Code</th>
<th>Course Title</th>
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<td>ART 495G</td>
<td>Advanced Printmaking:</td>
<td>3</td>
<td>Undergraduate/Graduate.</td>
<td>Develop conceptual base of work and expand range of print skills with emphasis</td>
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<td>ART 496G</td>
<td>Sequence and Structure</td>
<td>3</td>
<td>Undergraduate/Graduate.</td>
<td>Advanced studio course exploring the creation of sequential art and the</td>
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<td>ART 499G</td>
<td>Advanced Printmaking Workshop</td>
<td>1-3</td>
<td>Undergraduate/Graduate.</td>
<td>Studio and special problems designed to provide relevant course work for a</td>
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<td>ART 502</td>
<td>Classroom Assistantship in Art and Design</td>
<td>3</td>
<td>Undergraduate.</td>
<td>Student classroom experience as an assistant to the course instructor in a</td>
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<td>ART 505</td>
<td>5 BA Project</td>
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<td>Undergraduate.</td>
<td>BA students collect, organize, synthesize &amp; present capstone project in public</td>
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<td>ART 507</td>
<td>Undergraduate Research Assistantship in Art and Design</td>
<td>1-3</td>
<td>Undergraduate.</td>
<td>An opportunity for juniors and seniors to work collaboratively with an Art</td>
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ART 509 Art & Design Seminar:
3 cr. Undergraduate/Graduate.
Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required.
Prerequisites: jr st; 8 completion of Oral and Written Communication (OWC) Competency Part A GER, or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 509G Art & Design Seminar:
3 cr. Undergraduate/Graduate.
Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required.
Prerequisites: jr st, & Art 323(C); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 522 Topics in Advanced Illustration:
3 cr. Undergraduate.
Advanced course exploring contemporary illustration: technologies for its creation, dissemination and viewing, its relationship to design and fine art practice.
Prerequisites: jr st & Art 322(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 524 Professional Practice in Design:
3-6 cr. Undergraduate/Graduate.
Preparation for the design profession through research, writing and portfolio development. Graduate level requires additional research.
Prerequisites: jr st, & Art 323(C); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 524G Professional Practice in Design:
3-6 cr. Undergraduate/Graduate.
Preparation for the design profession through research, writing and portfolio development. Graduate level requires additional research.
Prerequisites: jr st, & Art 323(C); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 526 Research in Universal Design and Fabrication
3 cr. Undergraduate/Graduate.
Exploration of topics focused on Human Factors in Universal Design.
Prerequisites: jr st; Art 221(P), 378(P), or 478(P); or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Counts as repeat of Art 427 with similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 526G Research in Universal Design and Fabrication
3 cr. Undergraduate/Graduate.
Exploration of topics focused on Human Factors in Universal Design.
Prerequisites: jr st; Art 221(P), 378(P), or 478(P); or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Counts as repeat of Art 427 with similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 528 Print Production and Presentation Techniques
3 cr. Undergraduate.
Introduction to aspects of design production including scheduling, budgeting, pre-press, paper selection, printing, digital files, vendor communication; digital and hand-assembled mock-ups will be produced.
Prerequisites: Art 221(228)(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 529 Design and Visual Communication III
3 cr. Undergraduate/Graduate.
Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate portfolio.
Prerequisites: jr st, & grade of B- or better in Art 421(329)(P) & 6 cr (final 3 may be taken conc) Design and Visual Communication Expanded Studies (grade of C or better); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 529G Design and Visual Communication III
3 cr. Undergraduate/Graduate.
Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate portfolio.
Prerequisites: jr st, & grade of B- or better in Art 421(329)(P) & 6 cr (final 3 may be taken conc) Design and Visual Communication Expanded Studies (grade of C or better); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 531 Senior Project in Fibers
3 cr. Undergraduate.
Further development of fiber investigations leading to a final project for BFA exhibition.
Prerequisites: sr st & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 539 Fibers-Independent Study
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study for the advanced student in fibers.
Prerequisites: jr st; Admis to Art and Design prog; or grad st, & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 539G Fibers-Independent Study
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study for the advanced student in fibers.
Prerequisites: jr st, Admis to Art and Design prog; or grad st, & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 541 Advanced Drawing Strategies II
3 cr. Undergraduate/Graduate.
Continuation of Art 441. Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work on assigned and independently-conceived problems.
Prerequisites: jr st & Art 441(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 541G Advanced Drawing Strategies II
3 cr. Undergraduate/Graduate.
Continuation of Art 441. Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work on assigned and independently-conceived problems.
Prerequisites: jr st & Art 441(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 542 Advanced Figure Drawing Explorations
3 cr. Undergraduate/Graduate.
Continuation of Art 442. Advanced focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.
Prerequisites: jr st, admis to Art and Design prog & Art 442(P); or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 542G Advanced Figure Drawing Explorations
3 cr. Undergraduate/Graduate.
Continuation of Art 442. Advanced focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.
Prerequisites: jr st, admis to Art and Design prog & Art 442(P); or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 543 Painting Studio
3 cr. Undergraduate/Graduate.
Advanced investigation of painting focused upon personal image exploration through independently conceived problems.
Prerequisites: jr st & Admis to Art and Design prog; Art 441(P), 443(P); or grad st.
Course Rules: May be retaken to 9 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 543G Painting Studio
3 cr. Undergraduate/Graduate.
Advanced investigation of painting focused upon personal image exploration through independently conceived problems.
Prerequisites: jr st & Admis to Art and Design prog; Art 441(P), 443(P); or grad st.
Course Rules: May be retaken to 9 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 544 Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P), 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 545 Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P), 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 544G Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P), 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 545G Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P), 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 546 Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P), 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 546G Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P), 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 547 G Project in Sculpture
3 cr. Undergraduate/Graduate.
Development of projects in contemporary art. Emphasis on studio practice and independent work.
Prerequisites: jr st, admis to Art and Design prog, cumulative 2.67 GPA in photo curriculum, B- or better in Art 452 (P), & two of the following: 451(P), 454(P), 456(P), 458(P); or grad st; or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 552 Studio Practice and Research in Photography
3 cr. Undergraduate/Graduate.
Research and development of a body of photographic work.
Prerequisites: sr st, admis to Photo prog, cumulative 2.67 GPA in photo curriculum, B- or better in Art 452 (P), & two of the following: 451(P), 454(P), 456(P), 458(P); or grad st; or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 553 Senior Project in Photography
3 cr. Undergraduate.
Further development of studio investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st, grade of B- or better in Art 552(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 561 Conceptual Process, Sculptural Presence
3 cr. Undergraduate/Graduate.
Development of advanced concepts in contemporary sculpture.
Prerequisites: jr st, Admis to Art and Design prog, & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2019, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 561G Conceptual Process, Sculptural Presence
3 cr. Undergraduate/Graduate.
Development of advanced concepts in contemporary sculpture.
Prerequisites: jr st, Admis to Art and Design prog, & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2019, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 562 Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog, & Art 363(P) & 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 567 Senior Project in Sculpture
3 cr. Undergraduate.
Further development of independent sculpture investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st & Art 561(P); or 562(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 575 Senior Project in Jewelry and Metalsmithing
3 cr. Undergraduate.
Research and create a cohesive body of work based on technical, aesthetic and conceptual explorations for BFA Exhibition.
Prerequisites: sr st & Art 371(P), 474 (P); & four of the following: 372(C), 378 (C), 470(C), 472(C), 473(C), 478(C); or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 577 Research in Digital Fabrication and Craft:
3 cr. Undergraduate/Graduate.
Interdisciplinary research into digital fabrication, rapid prototyping and design.
Prerequisites: ART 478(P); or graduate standing; or consent of instructor.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 578G Research in Digital Fabrication and Craft:
3 cr. Undergraduate/Graduate.
Interdisciplinary research into digital fabrication, rapid prototyping and design.
Prerequisites: ART 478(P); or graduate standing; or consent of instructor.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 583 Senior Project in Ceramics
3 cr. Undergraduate.
Further development of independent investigations in ceramics leading to a final project for BFA Exhibition.
Prerequisites: sr st & Art 482(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 584 Experimental Processes in Woodfiring II
3 cr. Undergraduate/Graduate.
Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required.
Prerequisites: jr st, & Art 384(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 584G Experimental Processes in Woodfiring II
3 cr. Undergraduate/Graduate.
Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required.
Prerequisites: jr st, & Art 384(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 591 Portfolio in Print and Narrative Forms
3 cr. Undergraduate/Graduate.
Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, professional writing samples, visual documentation and portfolio presentation.
Prerequisites: jr st; gr st; or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 591G Portfolio in Print and Narrative Forms
3 cr. Undergraduate/Graduate.
Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, professional writing samples, visual documentation and portfolio presentation.
Prerequisites: jr st; gr st; or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 595 Colloquium: Print and Narrative Forms
3 cr. Undergraduate/Graduate.
Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work.
Prerequisites: jr st or grad st or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 595G Colloquium: Print and Narrative Forms
3 cr. Undergraduate/Graduate.
Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work.
Prerequisites: jr st or grad st or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 597 Senior Project in Print and Narrative Forms
3 cr. Undergraduate.
Further development of studio investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 603 Advanced Studio Practice
1-3 cr. Undergraduate/Graduate.
A special course open only to seniors and graduate students with written cons instr.
Prerequisites: sr st; writ cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 603G Advanced Studio Practice
1-3 cr. Undergraduate/Graduate.
A special course open only to seniors and graduate students with written cons instr.
Prerequisites: sr st; writ cons instr.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 604 Professional Practices
3 cr. Undergraduate.
Preparation for graduating seniors with skills needed for a career in the competitive field of art: resumes, grants, budgets, taxes.
Prerequisites: sr st; & successful completion of, or exemption from, a QL-A course, or cons instr.
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 605 BFA Exhibition
1 cr. Undergraduate.
Independent supervised preparation and exhibition in Art & Design to fulfill BFA degree requirements.
Prerequisites: sr st, enrol conc in an advanced studio course; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 606 BFA Exhibition in Design
1 cr. Undergraduate.
Supervised preparation and exhibition in conjunction with Art 529 Graphic Design III to fulfill degree requirements.
Prerequisites: Art 421(P) & 529(C).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 608 Art and Design Internship
3-6 cr. Undergraduate/Graduate.
Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses.
Prerequisites: jr st & admis to Art and Design prog; or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 608G Art and Design Internship
3-6 cr. Undergraduate/Graduate.
Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses.
Prerequisites: jr st & admis to Art and Design prog; or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 609 Independent Reading and Research
1-3 cr. Undergraduate/Graduate.
Prerequisites: sr st & wrt cons instr.
Course Rules: May be retaken/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 609G Independent Reading and Research
1-3 cr. Undergraduate/Graduate.
Prerequisites: sr st & wrt cons instr.
Course Rules: May be retaken/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 612 Senior Project in Digital Studio Practice
3 cr. Undergraduate.
Further development of independent investigation in Digital Media, leading to a final project for BFA Exhibition.
Prerequisites: sr st & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 621 The Design Group
3 cr. Undergraduate.
Development of advanced understanding of visual, theoretical, historical, professional and technical aspects of design practice through work with client(s).
Prerequisites: cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 627 Design Seminar:
3 cr. Undergraduate/Graduate.
Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities.
Prerequisites: jr st; or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 627G Design Seminar:
3 cr. Undergraduate/Graduate.
Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities.
Prerequisites: jr st; or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 629 Graduate Graphic Design I
3 cr. Undergraduate/Graduate.
Individual research in graphic design.
Prerequisites: Art 529(P) or cons instr.
Last Taught: Fall 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 629G Graduate Graphic Design I
3 cr. Undergraduate/Graduate.
Individual research in graphic design.
Prerequisites: Art 529(P) or cons instr.
Last Taught: Fall 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 643 Senior Project in Painting
3 cr. Undergraduate.
Further development of independent painting investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st & Art 543(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 645 Painting and Drawing Critique
3 cr. Undergraduate/Graduate.
An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies.
Prerequisites: sr st or writ cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 645G Painting and Drawing Critique
3 cr. Undergraduate/Graduate.
An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies.
Prerequisites: sr st or writ cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 721 Design Thinking & Making
3 cr. Graduate.
Focus on design process: identify/define problems, communication modes, nature of representation, dimensions of context, solution assessment. Develop storytelling skills. Rapid prototyping, qualitative/quantitative research, collaboration, co-design.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 727 MA Thesis Seminar in Design Entrepreneurship + Innovation
3 cr. Graduate.
Seminar focused on theory and methods for graduate research in Design Entrepreneurship + Innovation.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 753 Graduate Photography I
3 cr. Graduate.
Self-directed research in photography with involvement in group critiques.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 821 Collaborative Project in Design Entrepreneurship + Innovation
3 cr. Graduate.
Focus on collaboration and human-centered design practices, processes and activities including design thinking, research, iterative process, prototyping, and storytelling.
Prerequisites: grad st & Art 721(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 827 MA Thesis Prep in Design Entrepreneurship + Innovation
1-3 cr. Graduate.
Supervision in support of MA Thesis Project separate from but in conjunction with students MA Thesis Committee.
Prerequisites: Art 727(P) & cons instr.
Course Rules: Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 851 Graduate Photography II
3 cr. Graduate.
Continuation of Art 753.
Prerequisites: grad st; Art 753(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ART 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Summer 2015, Fall 2006, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 900 Graduate Studio
3 cr. Graduate.
Ongoing critique of individual studio research in students' chosen medium(s). Emphasis on developing and maintaining interdisciplinary dialogue. Studio research, individual, and group critiques required.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 901 Seminar in Art - Philosophy and Concepts
3 cr. Graduate.
Presentations and discussions centering on contemporary concerns in art. Student research and oral reports.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 903 Seminar in Art - Reading and Research
3 cr. Graduate.
Experience in the systematic development and production of written and visual documentation or research.
Prerequisites: grad st
Last Taught: Spring 2020, Fall 2014, Spring 2013, Fall 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 904 Seminar In Art -Unique Topics:
3 cr. Graduate.
Examination of unique topics and issues of the modern and/or contemporary field of art. Student scholarly research and written/oral reports required.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 905 Seminar in Art - Critique Colloquium
3 cr. Graduate.
Studio critique/discussion to develop analytical perceptual skills in the understanding/comprehension of works of art. Student research, presentation and written/oral reports required.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 906 Graduate Workshop:
3 cr. Graduate.
A special topic workshop for graduate students including reading, research, writing and studio practice.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
ART 908 Advanced Research-General
1-4 cr. Graduate.
Independent studio work and research in areas not covered by specific courses.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 909 Independent Reading and Research
1-4 cr. Graduate.
Independent reading and research relative to scholarly issues in art.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 918 Advanced Research-InterMedia
1-4 cr. Graduate.
Independent work and research in combined media.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 929 Advanced Research-Design & Digital Media
1-4 cr. Graduate.
Individual work and research in design and digital media.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 930 Advanced Research-Fibers
1-4 cr. Graduate.
Independent work and research in fibers.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 943 Advanced Research-Painting
1-4 cr. Graduate.
Independent work and research in painting/drawing.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 952 Advanced Research-Photography
1-4 cr. Graduate.
Independent work and research in photography.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 961 Advanced Research - Sculpture
1-4 cr. Graduate.
Independent work and research in sculpture.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2019, Spring 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 973 Advanced Research-Jewelry and Metalsmithing
1-4 cr. Graduate.
Independent work and research in jewelry and metalsmithing.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 989 Advanced Research-Ceramics
1-4 cr. Graduate.
Independent work and research in ceramics.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Fall 2017, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ART 994 Advanced Research-Printmaking
1-4 cr. Graduate.
Independent work and research in printmaking, bookmaking, and experimental narrative.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Art Education (ART ED)

ART ED 130 Multicultural Art and Visual Learning in Elementary Education
3 cr. Undergraduate.
A study of art and its relationship to human development. Designed for teachers interested in providing developmentally appropriate art experiences for children from pre-school through 6th grade. Lectures, discussions, readings, and lab activities will emphasize the use of art materials, equipment, and visual aids.
Prerequisites: none.
Course Rules: Not open for degree cr to Art & Art Ed majors. Not open for degree cr to Art & Art Ed majors.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 227 Introduction to Art Education
3 cr. Undergraduate.
Early introduction to the field of art education, afford students opportunity to observe in schools, and provide Art Ed faculty opportunity to connect with students earlier in program.
Prerequisites: soph st; admis to Art and Design prog.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ART ED 228 Learning Processes in Art Education
3 cr. Undergraduate.
Introduction to theories of visual learning, art criticism centered on contemporary artists, academic language for teaching in K-12 settings.
Exploration of portable technologies in teaching-learning.
Prerequisites: soph st; admis to Art and Design prog.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 327 Art Education Theory and Practice: Elementary
6 cr. Undergraduate.
Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in elementary school required.
Prerequisites: jr st, admis to Art Ed prog, & completion of Oral and Written Communication (OWC) Competency Part A GER, & cons instr.
Course Rules: Counts as repeat of Art Ed 225, 250, & 375.

General Education Requirements: OWCB
Last Taught: Fall 2019, Fall 2018, Fall 2017, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 328 Art Education Theory and Practice: Secondary
6 cr. Undergraduate.
Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in secondary school required.
Prerequisites: jr st, admis to Art Ed prog, Art Ed 327(P), & successful completion of or exemption from a QL-A course & cons instr.
Course Rules: Counts as repeat of Art Ed 325 & 350.

General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 425 Student Teaching in Art I - Elementary Levels
5 cr. Undergraduate.
Pre-professional teaching internship in preschool/kindergarten through sixth grade.
Prerequisites: sr st & Art Ed majors or Art Cert students only, dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 426(C), & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 426 Student Teaching in Art II: Secondary Levels
5 cr. Undergraduate.
Pre-professional teaching internship in grades seven through twelve.
Prerequisites: sr st & Art Ed majors or Art Cert students only; dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 425(C), & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 489 Art Education Workshop:
1-3 cr. Undergraduate/Graduate.
A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 489G Art Education Workshop:
1-3 cr. Undergraduate/Graduate.
A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 699 Independent Reading and Research
1-4 cr. Undergraduate.
Prerequisites: sr st & writ cons instr.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 801 Seminar in Urban Education and the Visual Arts
3 cr. Graduate.
Seminar on issues related to urban schools. Emphasis on the art in urban education and consequent demands made upon curriculum.
Prerequisites: grad st; Art Ed 750 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 810 Curricular Designs for Art Instruction
3 cr. Graduate.
Curricular rationales and models will be studied and tested. Emphasis on use of art history and criticism with studio-based curricula.
Prerequisites: grad st; Art Ed 775 or cons instr.
Last Taught: Fall 2016, Spring 2011, Fall 1998, Fall 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 830 Teaching Art With Works of Art
3 cr. Graduate.
Study of ways historic and contemporary masterworks can enhance art curricula. Use of art museums will be emphasized and visual resources examined.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 850 Supervision and Administration of Art Programs
3 cr. Graduate.
Study of supervisory and administrative practices related to art programs. Staff development techniques, management procedures, evaluation processes, community relations, and grant writing emphasized.
Prerequisites: grad st; Art Ed 750(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ART ED 860 Teaching Art in Higher Education
3 cr. Graduate.
Study of curricular models, administrative structures and policies, and teaching methods used by arts administrators, educators, and master artists in higher education.
Prerequisites: grad st; Art Ed 725(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
**ART ED 900 Advanced Independent Problems in Art Education**  
3 cr. Graduate.  
Applied research in art education with emphasis on student generated problems in studio practices, Art History, criticism, Anthropology, Sociology, and aesthetics, or Psychology.  
**Prerequisites:** grad st; cons grad advisor & instr.  
**Course Rules:** May be repeated to max of 6 cr.  
**Last Taught:** Fall 2016, Spring 2016, Fall 2015, Fall 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ART ED 910 Seminar in Art Education:**  
3 cr. Graduate.  
Each seminar will focus on a special topic relevant to art education. Topic related lectures, readings, and discussions will conclude in a required research report.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** May be repeated with change in topic to max of 9 cr.  
**Last Taught:** Fall 2016, Fall 2015, Spring 2014, Fall 2013.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ART ED 920 Research Methods in Art Education**  
3 cr. Graduate.  
The study of research models and methods used in the field. Student will develop a research proposal and design a research strategy. Participation in a field study required.  
**Prerequisites:** grad st; cons grad advisor.  
**Course Rules:** May be repeated to max of 9 cr.  
**Last Taught:** Spring 2018, Spring 2016, Spring 2015, Spring 2013.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ART ED 990 Master’s Thesis**  
1-3 cr. Graduate.  
Thesis research and advisement for m.s. in art education students who have completed course requirements for the degree.  
**Prerequisites:** grad st; completion of 30 grad cr; cons grad advisor.  
**Course Rules:** May be repeated to max of 12 cr.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ART ED 998 Doctoral Dissertation**  
1-3 cr. Graduate.  
Doctoral dissertation research and advisement for candidates for Ph.D. in urban education with a specialty in art education.  
**Prerequisites:** doctoral candidacy; approval of doctoral advisor.  
**Course Rules:** May be repeated to max of 12 cr.  
**Last Taught:** Spring 2002, Fall 2001, Spring 2001, Fall 2000.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ART ED 999 Independent Reading and Research**  
1-4 cr. Graduate.  
**Prerequisites:** grad st; cons instr.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**Art History (ARTHIST)**

**ARTHIST 101 Ancient and Medieval Art and Architecture**  
3 cr. Undergraduate.  
The great originative styles of Egypt, Greece, Rome, and the Christian West in architecture, sculpture, and painting.  
**Prerequisites:** none.  
**General Education Requirements:** HU  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ARTHIST 102 Renaissance to Modern Art and Architecture**  
3 cr. Undergraduate.  
Representative masters in the historical development of European painting, sculpture, and architecture from the fifteenth century to the present.  
**Prerequisites:** none.  
**General Education Requirements:** HU  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ARTHIST 103 History of Architecture**  
3 cr. Undergraduate.  
Architecture from Stonehenge to the present, examining the nature of the art, major styles and significant architects, and relation to society, technology, and the environment.  
**Prerequisites:** none.  
**General Education Requirements:** HU  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ARTHIST 104 African, New World and Oceanic Art and Architecture**  
3 cr. Undergraduate.  
Major art forms in oceanic, pre-Columbian, American Indian, and African art; their functions and meanings.  
**Prerequisites:** none.  
**General Education Requirements:** HU  
**Last Taught:** Summer 2020, Spring 2020, Spring 2019, Spring 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ARTHIST 105 Asian Art and Architecture**  
3 cr. Undergraduate.  
Functions and meanings of major art forms in the art of Asia, including India, China, Japan, and Southeast Asia.  
**Prerequisites:** none.  
**General Education Requirements:** HU  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ARTHIST 111 Entertainment Arts: Film, Television, and the Internet**  
3 cr. Undergraduate.  
History of film, television, and the Internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.  
**Prerequisites:** none.  
**Course Rules:** ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.  
**General Education Requirements:** HU  
**Last Taught:** Summer 2020, Spring 2020, UWinterIM 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
ARTHIST 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 205 History of Film I: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 206 History of Film II: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 210 The Art and Architecture of the First Cities: A Global Perspective
3 cr. Undergraduate.
The art and monuments of the first cities of the ancient world from the Near East to the Americas which gave rise to urbanization as we know it.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 220 Introduction to Medieval Art and Architecture
3 cr. Undergraduate.
Introduces key principles of artistic production in the late Roman, early Christian, Byzantine, and Medieval periods, c. 150-800 CE, including the style, the role of the Bible in medieval image theory, iconography, and typology.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 237 Northern Renaissance Art
3 cr. Undergraduate.
Painting, graphics, and sculpture, 1364-1569; their influence on great 15th- and 16th-century styles. Main French, Dutch, and German artistic developments in historical context.
Prerequisites: soph st.
Last Taught: Spring 2019, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 240 Introduction to Prints and Printmaking: History and Techniques
3 cr. Undergraduate.
The history of print media and its development in Europe, Asia, and the Americas since 1450. Emphasis on historical, artistic, material, cultural contexts.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 241 Introduction to Baroque Art
3 cr. Undergraduate.
Representative masters of the 17th century, including Caravaggio, Rubens, Rembrandt, Bernini, Velazquez, and Poussin.
Prerequisites: soph st.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2013, Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 250 Introduction to American Art
3 cr. Undergraduate.
Traces major artists, styles, themes, and issues in American painting, sculpture, and photography from colonial through contemporary periods.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 251 Introduction to the Art and Architecture of Latin America
3 cr. Undergraduate.
Art and architecture of Latin America from 1492 to the mid-twentieth century.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 255 Survey of Italian Renaissance Painting and Sculpture
3 cr. Undergraduate.
Overview of Italian Renaissance art, tracing its origins with the painter Giotto in the fourteenth century to its culmination in Michelangelo’s sixteenth-century masterpieces.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2018, Fall 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 260 Spanish Visual Art and Culture: 1450-1830
3 cr. Undergraduate.
Masterpieces by Spanish artists, including El Greco, Velazquez, and Goya; the social and intellectual forces at play in their works.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 261 Modern Art
3 cr. Undergraduate.
Survey of characteristics and developments of modern art movements. Representative theories, groups, and personalities.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 270 Pre-Columbian Art, Myth, and Legacy
3 cr. Undergraduate.
The conquest of the Americas and the art of three Pre-Columbian civilizations: the Aztec, Maya, and Inca.
Prerequisites: none.
Last Taught: Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 281 Modern and Contemporary Chinese Art
3 cr. Undergraduate.
Comprehensive survey of modern and contemporary Chinese art history.
Prerequisites: none.
Last Taught: Fall 2015, Spring 2014, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 289 Internship in Art History, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of art history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in ArtHist; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 307 Film Directors:
3 cr. Undergraduate/Graduate.
Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.
Prerequisites: jr st; ArtHist 205(R) or 305(R).
Course Rules: May be retaken w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2016, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 308G Film Styles:
3 cr. Undergraduate/Graduate.
A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 308G Film Styles:
3 cr. Undergraduate/Graduate.
A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 312 Minoan and Mycenaean Art and Archaeology
3 cr. Undergraduate/Graduate.
Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries.
Prerequisites: jr st.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 312G Minoan and Mycenaean Art and Archaeology
3 cr. Undergraduate/Graduate.
Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries.
Prerequisites: jr st.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 313 Greek Art and Archaeology
3 cr. Undergraduate/Graduate.
Major developments in Greek art from Archaic times through the Hellenistic period. Emphasis on architecture, sculpture, and painting of the Archaic and Classical periods.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 313G Greek Art and Archaeology
3 cr. Undergraduate/Graduate.
Major developments in Greek art from Archaic times through the
Hellenistic period. Emphasis on architecture, sculpture, and painting of
the Archaic and Classical periods.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 314 Art and Archaeology of the Ancient Near East
3 cr. Undergraduate/Graduate.
Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities
in the ancient Near East from the Neolithic to Alexander the Great's
conquest.
Prerequisites: jr st; ArtHist 101(P).
Course Rules: Counts as repeat of ArtHist 499 w/same topic.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 314G Art and Archaeology of the Ancient Near East
3 cr. Undergraduate/Graduate.
Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities
in the ancient Near East from the Neolithic to Alexander the Great's
conquest.
Prerequisites: jr st; ArtHist 101(P).
Course Rules: Counts as repeat of ArtHist 499 w/same topic.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 315 Art and Archaeology of Ancient Egypt
3 cr. Undergraduate/Graduate.
Architecture, arts, and crafts created for Egyptian kings, nobles, and
commoners from the Predynastic period (5500 B.C.E.) to Cleopatra (31
B.C.E.).
Prerequisites: jr st; ArtHist 101(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 315G Art and Archaeology of Ancient Egypt
3 cr. Undergraduate/Graduate.
Architecture, arts, and crafts created for Egyptian kings, nobles, and
commoners from the Predynastic period (5500 B.C.E.) to Cleopatra (31
B.C.E.).
Prerequisites: jr st; ArtHist 101(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 316 Roman Art and Archaeology
3 cr. Undergraduate/Graduate.
Major developments in the evolution of Roman architecture, sculpture
and painting from Republican through late Imperial times.
Prerequisites: jr st.
Last Taught: Spring 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 316G Roman Art and Archaeology
3 cr. Undergraduate/Graduate.
Major developments in the evolution of Roman architecture, sculpture
and painting from Republican through late Imperial times.
Prerequisites: jr st.
Last Taught: Spring 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 324 Early Christian and Byzantine Art and Architecture
3 cr. Undergraduate/Graduate.
Art and architecture of Constantinople and vicinity from the fourth to the
fifteenth century.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 324G Early Christian and Byzantine Art and Architecture
3 cr. Undergraduate/Graduate.
Art and architecture of Constantinople and vicinity from the fourth to the
fifteenth century.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 325 Early Medieval Art in the West
3 cr. Undergraduate/Graduate.
Architecture, sculpture, metalwork, and manuscript illumination from
c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia,
and Northern Italy.
Prerequisites: jr st; ArtHist 101(R).
Last Taught: Fall 2010, Spring 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 325G Early Medieval Art in the West
3 cr. Undergraduate/Graduate.
Architecture, sculpture, metalwork, and manuscript illumination from
c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia,
and Northern Italy.
Prerequisites: jr st; ArtHist 101(R).
Last Taught: Fall 2010, Spring 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 327 Caliphs, Emirs, & Kings: Art & Architecture of Medieval
Spain
3 cr. Undergraduate/Graduate.
Visual arts of the peoples that lived in Al-Andalus (the Arabic name for
Muslim Spain) from the 8th to the 15th centuries.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 327G Caliphs, Emirs, & Kings: Art & Architecture of Medieval
Spain
3 cr. Undergraduate/Graduate.
Visual arts of the peoples that lived in Al-Andalus (the Arabic name for
Muslim Spain) from the 8th to the 15th centuries.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 329 Late Medieval Art and Architecture
3 cr. Undergraduate/Graduate.
Church architecture, manuscript illumination, and architectural and figural
sculpture from the Gothic era to the rise of the Renaissance.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 329G Late Medieval Art and Architecture
3 cr. Undergraduate/Graduate.
Church architecture, manuscript illumination, and architectural and figural sculpture from the Gothic era to the rise of the Renaissance.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 333 High Renaissance Art in Italy
3 cr. Undergraduate/Graduate.
The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 333G High Renaissance Art in Italy
3 cr. Undergraduate/Graduate.
The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian.
Prerequisites: jr st.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 341 Art of the Dutch Golden Age
3 cr. Undergraduate/Graduate.
The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer.
Prerequisites: jr st.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 341G Art of the Dutch Golden Age
3 cr. Undergraduate/Graduate.
The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer.
Prerequisites: jr st.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 342 Art and Society in Renaissance Florence
3 cr. Undergraduate/Graduate.
Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender.
Prerequisites: jr st.
Last Taught: Fall 2011, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 342G Art and Society in Renaissance Florence
3 cr. Undergraduate/Graduate.
Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender.
Prerequisites: jr st.
Last Taught: Fall 2011, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 343 Art and Culture of Spain and Latin America, 1500-1750
3 cr. Undergraduate/Graduate.
Art and culture in Spain and its empire, including Mexico and Peru. Major artists such as El Greco, Velázquez, and Ribera.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 343G Art and Culture of Spain and Latin America, 1500-1750
3 cr. Undergraduate/Graduate.
Art and culture in Spain and its empire, including Mexico and Peru. Major artists such as El Greco, Velázquez, and Ribera.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 349 American Postmodernism 1960-2000
3 cr. Undergraduate/Graduate.
Prerequisites: ArtHist 102(P)
Last Taught: Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 349G American Postmodernism 1960-2000
3 cr. Undergraduate/Graduate.
Prerequisites: ArtHist 102(P)
Last Taught: Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 351 English Art: 1550-1850
3 cr. Undergraduate/Graduate.
Architecture, painting, and sculpture in England from Elizabeth I to the Great Exhibition of 1851; emphasis on Wren, Adam, Reynolds, Gainsborough, Constable, and Turner.
Prerequisites: jr st.
Last Taught: Spring 2013, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 351G English Art: 1550-1850
3 cr. Undergraduate/Graduate.
Architecture, painting, and sculpture in England from Elizabeth I to the Great Exhibition of 1851; emphasis on Wren, Adam, Reynolds, Gainsborough, Constable, and Turner.
Prerequisites: jr st.
Last Taught: Spring 2013, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 353 American Art: Colonial Period - 1870
3 cr. Undergraduate/Graduate.
Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 353G American Art: Colonial Period - 1870
3 cr. Undergraduate/Graduate.
Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 354 American Art: 1870 - Present
3 cr. Undergraduate/Graduate.
Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 354G American Art: 1870 - Present
3 cr. Undergraduate/Graduate.
Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 355 American Folk Art
3 cr. Undergraduate/Graduate.
Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 355G American Folk Art
3 cr. Undergraduate/Graduate.
Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 357 Nineteenth-Century Painting in Europe
3 cr. Undergraduate/Graduate.
History of European painting from 1800 to 1900.
Prerequisites: jr st.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 357G Nineteenth-Century Painting in Europe
3 cr. Undergraduate/Graduate.
History of European painting from 1800 to 1900.
Prerequisites: jr st.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 358 Modern Painting I: 1850-1900
3 cr. Undergraduate/Graduate.
Realist, Impressionist, and Post-Impressionist movements in historical and intellectual contexts; emphasis on Courbet, Manet, Renoir, Degas, Pissaro, Seurat, Cezanne, Gauguin, Ensor, Munch, Van Gogh.
Prerequisites: jr st.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 358G Modern Painting I: 1850-1900
3 cr. Undergraduate/Graduate.
Realist, Impressionist, and Post-Impressionist movements in historical and intellectual contexts; emphasis on Courbet, Manet, Renoir, Degas, Pissaro, Seurat, Cezanne, Gauguin, Ensor, Munch, Van Gogh.
Prerequisites: jr st.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 359 Modern Architecture I: The European Foundations of Modern Architecture
3 cr. Undergraduate/Graduate.
An aesthetic, stylistic, theoretical, technical and functional study of European architecture from the end of the Baroque style to the beginning of Modernism.
Prerequisites: jr st; ArtHist 101(R) & 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 359G Modern Architecture I: The European Foundations of Modern Architecture
3 cr. Undergraduate/Graduate.
An aesthetic, stylistic, theoretical, technical and functional study of European architecture from the end of the Baroque style to the beginning of Modernism.
Prerequisites: jr st; ArtHist 101(R) & 102(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 360 Modern Architecture II: The Rise of Modern Architecture
3 cr. Undergraduate/Graduate.
Emphasizing the work of the major modern architect, the course traces the evolution of architecture from the beginnings of Modernism to the present time.
Prerequisites: jr st.
Last Taught: Fall 2007, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 360G Modern Architecture II: The Rise of Modern Architecture
3 cr. Undergraduate/Graduate.
Emphasizing the work of the major modern architect, the course traces the evolution of architecture from the beginnings of Modernism to the present time.
Prerequisites: jr st.
Last Taught: Fall 2007, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 361G History of Photography
3 cr. Undergraduate/Graduate.
A survey of photography from its inception in 1826 to the present. Topics include stylistic and technological evolution, cultural impact, and aesthetic considerations of photography.
Prerequisites: jr st; ArtHist 102(R) or 357(R).
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 366 German Painting, 1800-1933
3 cr. Undergraduate/Graduate.
Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and ‘Neve Sachlichkeit.’
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 367 Latin American Modernisms
3 cr. Undergraduate/Graduate.
Modernist developments in Latin American art, circa 1900 to circa 1960. National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.
Prerequisites: jr st.
Last Taught: Spring 2009, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 367G Latin American Modernisms
3 cr. Undergraduate/Graduate.
Modernist developments in Latin American art, circa 1900 to circa 1960. National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.
Prerequisites: jr st.
Last Taught: Spring 2009, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 368G History of Modern Design
3 cr. Undergraduate/Graduate.
An investigation of the craft or decorative arts—specially furniture, ceramics, glass, metalwork, and textiles—from the Great Exhibition of 1851 to the present.
Prerequisites: jr st.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 364 Modern Painting II: 1900 to the Present
3 cr. Undergraduate/Graduate.
Development of the Fauve, Cubist, Expressionist, Dada, Surrealist, and Abstract movements against the historical and intellectual background of the twentieth century. Emphasis on leading individual twentieth century artists.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 366G German Painting, 1800-1933
3 cr. Undergraduate/Graduate.
Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and ‘Neve Sachlichkeit.’
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 367 Latin American Modernisms
3 cr. Undergraduate/Graduate.
Modernist developments in Latin American art, circa 1900 to circa 1960. National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.
Prerequisites: jr st.
Last Taught: Spring 2009, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 367G Latin American Modernisms
3 cr. Undergraduate/Graduate.
Modernist developments in Latin American art, circa 1900 to circa 1960. National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.
Prerequisites: jr st.
Last Taught: Spring 2009, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 368G History of Modern Design
3 cr. Undergraduate/Graduate.
An investigation of the craft or decorative arts—specially furniture, ceramics, glass, metalwork, and textiles—from the Great Exhibition of 1851 to the present.
Prerequisites: jr st.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 369G Introduction to Contemporary Art
3 cr. Undergraduate/Graduate.
Legacies of Minimalism and Conceptual Art on global contemporary art movements such as site-specific art, earth and land art, institutional critique, body and performance art.
Prerequisites: jr st.
Course Rules: Counts as repeat of ArtHist 470 w/same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 370G Trends in Contemporary Architecture
3 cr. Undergraduate/Graduate.
Current trends in architectural practice, focusing on organic and animate built forms, as well as modular and portable structures within performative, digital, and visual architecture.
Prerequisites: jr st.
Course Rules: Counts as repeat of ArtHist 470 w/same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 371 African Art
3 cr. Undergraduate/Graduate.
Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 371G African Art
3 cr. Undergraduate/Graduate.
Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 372 Art of the Inca and their Ancestors
3 cr. Undergraduate/Graduate.
Native arts of South America before European contact; emphasis on artistic developments in the Andean region.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 372G Art of the Inca and their Ancestors
3 cr. Undergraduate/Graduate.
Native arts of South America before European contact; emphasis on artistic developments in the Andean region.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 373 Art of Ancient Mexico and Central America
3 cr. Undergraduate/Graduate.
Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 373G Art of Ancient Mexico and Central America
3 cr. Undergraduate/Graduate.
Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 374G Art of Ancient Mexico and Central America
3 cr. Undergraduate/Graduate.
Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 375 Art of the Aztec Empire
3 cr. Undergraduate/Graduate.
Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork.
Prerequisites: jr st.
Course Rules: Counts as repeat of ArtHist 499 with same subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 375G Art of the Aztec Empire
3 cr. Undergraduate/Graduate.
Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork.
Prerequisites: jr st.
Course Rules: Counts as repeat of ArtHist 499 with same subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 381 Honors Seminar:
3 cr. Undergraduate.
Specific topics vary.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 382 Chinese Art and Architecture
3 cr. Undergraduate/Graduate.
Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art.
Prerequisites: jr st.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 382G Chinese Art and Architecture
3 cr. Undergraduate/Graduate.
Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art.
Prerequisites: jr st.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 383 Japanese Art and Architecture
3 cr. Undergraduate/Graduate.
Japanese temples, shrines, paintings, prints, and crafts from the Neolithic to the modern period, including films, Zen art, and the tea ceremony.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 383G Japanese Art and Architecture
3 cr. Undergraduate/Graduate.
Japanese temples, shrines, paintings, prints, and crafts from the Neolithic to the modern period, including films, Zen art, and the tea ceremony.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 384 Art and Archaeology of the Chinese Bronze Age
3 cr. Undergraduate/Graduate.
In-depth study of ritual bronzes and other crafts created for nobles and commoners of the Bronze Age, with emphasis on recent archaeological discoveries.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 384G Art and Archaeology of the Chinese Bronze Age
3 cr. Undergraduate/Graduate.
In-depth study of ritual bronzes and other crafts created for nobles and commoners of the Bronze Age, with emphasis on recent archaeological discoveries.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 386 Art, Ritual, and Ethnicity of China
3 cr. Undergraduate/Graduate.
In depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 386G Art, Ritual, and Ethnicity of China
3 cr. Undergraduate/Graduate.
In depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 387 Buddhist Art and Architecture
3 cr. Undergraduate/Graduate.
Buddhist arts and architectures of India, central Asia, China, Korea, Japan, and southeast Asia. Emphasis on Tibetan art.
Prerequisites: jr st.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 387G Buddhist Art and Architecture
3 cr. Undergraduate/Graduate.
Buddhist arts and architectures of India, central Asia, China, Korea, Japan, and southeast Asia. Emphasis on Tibetan art.
Prerequisites: jr st.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 412 Cities and Sanctuaries of Ancient Greece
3 cr. Undergraduate/Graduate.
Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 412G Cities and Sanctuaries of Ancient Greece
3 cr. Undergraduate/Graduate.
Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 413 Greek Sculpture
3 cr. Undergraduate/Graduate.
Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 413G Greek Sculpture
3 cr. Undergraduate/Graduate.
Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 425 The Age of Pilgrimage and Crusade: Romanesque Art and Architecture
3 cr. Undergraduate/Graduate.
Developments in art and architecture in the eleventh and twelfth centuries in France and Spain.
Prerequisites: junior standing, or completion of one of the following: ARTHIST 101(P) or ARTHIST 220(P).
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 425G The Age of Pilgrimage and Crusade: Romanesque Art and Architecture
3 cr. Undergraduate/Graduate.
Developments in art and architecture in the eleventh and twelfth centuries in France and Spain.
Prerequisites: junior standing, or completion of one of the following: ARTHIST 101(P) or ARTHIST 220(P).
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 426 The Age of the Great Cathedrals: Gothic Art and Architecture
3 cr. Undergraduate/Graduate.
Gothic art and architecture from its origins in the Île-de-France through the High Gothic cathedrals to the European-wide diffusion of the Rayonnant style.
Prerequisites: jr st; ArtHist 101(R) or 220(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 426G The Age of the Great Cathedrals: Gothic Art and Architecture
3 cr. Undergraduate/Graduate.
Gothic art and architecture from its origins in the Île-de-France through the High Gothic cathedrals to the European-wide diffusion of the Rayonnant style.
Prerequisites: jr st; ArtHist 101(R) or 220(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 431G Renaissance Architecture in Italy
3 cr. Undergraduate/Graduate.
Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio.
Prerequisites: jr st.
Last Taught: Fall 2009, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 431G Renaissance Architecture in Italy
3 cr. Undergraduate/Graduate.
Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio.
Prerequisites: jr st.
Last Taught: Fall 2009, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 447 Topics in Early Modern Art:
3 cr. Undergraduate/Graduate.
Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 447G Topics in Early Modern Art:
3 cr. Undergraduate/Graduate.
Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 459 American Architecture
3 cr. Undergraduate/Graduate.
Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II.
Prerequisites: jr st; ArtHist 103(P) or 102(P) or cons instr.
Last Taught: Spring 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 459G American Architecture
3 cr. Undergraduate/Graduate.
Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II.
Prerequisites: jr st; ArtHist 103(P) or 102(P) or cons instr.
Last Taught: Spring 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 462 Frank Lloyd Wright
3 cr. Undergraduate/Graduate.
The work of America’s and Wisconsin’s best-known architect presented in its historical, cultural and philosophical contexts.
Prerequisites: jr st; one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).
Last Taught: Fall 2017, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 462G Frank Lloyd Wright
3 cr. Undergraduate/Graduate.
The work of America's and Wisconsin's best-known architect presented in its historical, cultural and philosophical contexts.
**Prerequisites:** jr st; one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).
**Last Taught:** Fall 2017, Fall 2011.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 463 Cubism and its Inheritance
3 cr. Undergraduate/Graduate.
The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia.
**Prerequisites:** jr st.
**Last Taught:** Spring 2017, Spring 2012.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 463G Cubism and its Inheritance
3 cr. Undergraduate/Graduate.
The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia.
**Prerequisites:** jr st.
**Last Taught:** Spring 2017, Spring 2012.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 464 European Art, 1890-1910
3 cr. Undergraduate/Graduate.
European art in a pivotal period in the history of modern painting, architecture, and sculpture; post-impressionism, symbolism, art nouveau, fauvism, expressionism, and cubism.
**Prerequisites:** jr st.
**Last Taught:** Fall 2013, Spring 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 464G European Art, 1890-1910
3 cr. Undergraduate/Graduate.
European art in a pivotal period in the history of modern painting, architecture, and sculpture; post-impressionism, symbolism, art nouveau, fauvism, expressionism, and cubism.
**Prerequisites:** jr st.
**Last Taught:** Fall 2013, Spring 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 465 Dada and Surrealist Art
3 cr. Undergraduate/Graduate.
Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali.
**Prerequisites:** jr st.
**Last Taught:** Spring 2016, Fall 2012.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 465G Dada and Surrealist Art
3 cr. Undergraduate/Graduate.
Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali.
**Prerequisites:** jr st.
**Last Taught:** Spring 2016, Fall 2012.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 469 American Artists Revealed:
3 cr. Undergraduate/Graduate.
Focus on prominent 19th and 20th century American master artists working in various genres and formal approaches.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 2017, Spring 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 469G American Artists Revealed:
3 cr. Undergraduate/Graduate.
Focus on prominent 19th and 20th century American master artists working in various genres and formal approaches.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 2017, Spring 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 470 Topics in American Art:
3 cr. Undergraduate/Graduate.
In-depth examination of important themes, genres, or subgroups in the evolution of American art.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Fall 2017, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 470G Topics in American Art:
3 cr. Undergraduate/Graduate.
In-depth examination of important themes, genres, or subgroups in the evolution of American art.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Fall 2017, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 471 Topics in Contemporary Art:
3 cr. Undergraduate.
Art from the 1960s to the present.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 472 History and Theory of New Media Art
3 cr. Undergraduate/Graduate.
The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies.
**Prerequisites:** jr st.
**Last Taught:** Fall 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ARTHIST 472G History and Theory of New Media Art
3 cr. Undergraduate/Graduate.
The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies.
**Prerequisites:** jr st.
**Last Taught:** Fall 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/
ARTHIST 473 Art and Performance
3 cr. Undergraduate/Graduate.
Intersections between art and performance, beginning in the 1960s, and including performance and body art, live art, dance, and participatory or relational post-studio art practice.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 473G Art and Performance
3 cr. Undergraduate/Graduate.
Intersections between art and performance, beginning in the 1960s, and including performance and body art, live art, dance, and participatory or relational post-studio art practice.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 474 Maya Art
3 cr. Undergraduate/Graduate.
Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes.
Prerequisites: jr st.
Last Taught: Fall 2012, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 474G Maya Art
3 cr. Undergraduate/Graduate.
Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes.
Prerequisites: jr st.
Last Taught: Fall 2012, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 480 Chinese Painting
3 cr. Undergraduate/Graduate.
Major developments in Chinese painting from 6 B.C.E. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 480G Chinese Painting
3 cr. Undergraduate/Graduate.
Major developments in Chinese painting from 6 B.C.E. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 481 Topics in Chinese Art:
1-3 cr. Undergraduate/Graduate.
In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 481G Topics in Chinese Art:
1-3 cr. Undergraduate/Graduate.
In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 482 Topics in Non-Western Art:
3 cr. Undergraduate/Graduate.
In-depth examination of major themes, genres, or regional sub-groups within the field of non-western art.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2015, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 482G Topics in Non-Western Art:
3 cr. Undergraduate/Graduate.
In-depth examination of major themes, genres, or regional sub-groups within the field of non-western art.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2015, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 489 Internship in Art History, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of art history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in ArtHist; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Spring 2013, Fall 2012, Summer 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ARThist 499 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.  
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 501 Colloquium in Method and Theory  
3 cr. Undergraduate.  
An undergraduate research seminar in various aspects of the history of art, with papers presented by students.  
Prerequisites: jr st; declared Art History major; cons instr.  
Course Rules: Satisfies L&S research req.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 691 Art Museum Internship  
3 cr. Undergraduate.  
Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art.  
Prerequisites: jr st; at least 6 cr ArtHist at the 300 level or above & cons internship coord.  
Course Rules: May be retracted for 3 additional cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 699 Independent Study  
1-3 cr. Undergraduate.  
Advanced independent work under the supervision of an ArtHist faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair.  
Prerequisites: jr st; 2.0 GPA; consent of constructor, department chair, and Assistant Dean for Student Academic Services.  
Course Rules: May be retracted with change in topic to 6 cr max.  
Last Taught: Fall 2019, Fall 2014, Summer 2014, Spring 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 700 Proseminar in Art History  
3 cr. Graduate.  
Historiography and methodology of art history.  
Prerequisites: grad st or cons instr  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 703 Introduction to Art Museum Studies I  
3 cr. Graduate.  
History and theory of the art museum; emphasis on the discourse of the modern museum, and selected issues in contemporary exhibition and display.  
Prerequisites: grad st.  
Course Rules: Course fee may be assessed.  
Last Taught: Spring 2020, Fall 2018, Spring 2017, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 704 Introduction to Art Museum Studies II  
3 cr. Graduate.  
Methodologies and technologies of art museum work, including collection management, exhibition organization, catalogue production, and educational programming.  
Prerequisites: graduate standing.  
Course Rules: Course fee may be assessed.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 710 Colloquium in Ancient Art and Archaeology:  
3 cr. Graduate.  
Directed readings and discussions on topics in the arts of greece, rome, egypt, or the near east. Emphasis on scholarly source materials and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Spring 2020, Spring 2017, Fall 2013, Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 720 Colloquium in Medieval Art/Architecture:  
3 cr. Graduate.  
Directed readings and discussions on topics in early christian byzantine and western medieval art and architecture. Emphasis on scholarly source material and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Fall 2018, Spring 2015, Fall 2011, Spring 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 730 Colloquium in Renaissance/Baroque Art/Architecture:  
3 cr. Graduate.  
Directed readings and discussions on topics in the arts of the renaissance and/or baroque periods. Emphasis on scholarly source material and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ARThist 740 Colloquium in Latin American Art:  
3 cr. Graduate.  
Directed readings, critical discussions, and short written reports on topics in Latin American art, 1492 to the present. Emphasis on scholarly sources and methodological approaches.  
Prerequisites: grad st.  
Course Rules: Retakable w/ chg in topic to 9 cr max.  
Last Taught: Spring 2007.  
Current Offerings: https://catalog.uwm.edu/course-search/
ARTHIST 750 Colloquium in American Art:
3 cr. Graduate.
Directed readings, critical discussions, and short written reports on topics in American art 1600-present. Emphasis on scholarly sources and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2016, Fall 2014, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 760 Colloquium in Modern Art/Architecture:
3 cr. Graduate.
Directed readings, critical discussions, and short written reports on topics in modern art/architecture 1800-present. Emphasis on scholarly sources and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 761 Colloquium in Film History, Theory, Criticism:
3 cr. Graduate.
Readings in contemporary historiography and theory methodologies. Application of criticism to films and periods. 12 essays, 1 paper. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2015, Fall 2012, Spring 2010, Fall 1999.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 770 Colloquium in Non-Western Art:
3 cr. Graduate.
Problems in the traditional arts of pre-Columbian America, Africa, and Oceania. Develops methodological skills in art history through the exploration of art in non-western societies. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2017, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 890 Independent Field Study
1-3 cr. Graduate.
Independent research in local archives, on local monuments, or on archaeological expeditions.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 891 Art Museum Internship
3 cr. Graduate.
Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art.
Prerequisites: grad st; at least 6 cr in ArtHist at grad level & cons internship coord.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 901 Problems in Art History:
3 cr. Graduate.
Selected problems in art historical scholarship. Students will research scholarly problems in depth and present the results in both oral and written form. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st; one 700-level colloquium in ArtHist & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 990 Thesis Research
3-6 cr. Graduate.
Prerequisites: grad st & writ cons grad advisor or instr.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 991 Thesis Exhibition
3-6 cr. Graduate.
Organization and installation of an art exhibition.
Prerequisites: grad st; ArtHist 700(P); writ cons grad advisor or instr.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ARTHIST 999 Reading and Research
1-3 cr. Graduate.
Advanced independent research. For information, consult department chair.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
Astronomy (ASTRON)

ASTRON 103 Survey of Astronomy
3 cr. Undergraduate.
History of astronomy; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies and quasars; expansion of the universe, dark matter; the big bang.
Prerequisites: math placement level 10.
General Education Requirements: NS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 104 Astronomy Laboratory
1 cr. Undergraduate.
Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103.
Prerequisites: Astron 103(C) or Astron 211(C).
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 185 Astronomy for Pre-Education Majors
3 cr. Undergraduate.
Space: how we know and what we know; the solar system, stars, galaxies, and the universe. 2 hrs lec, lab.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 194 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 211 Principles of Astronomy
3 cr. Undergraduate.
Light and matter; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies, quasars; expansion of universe, dark matter; big bang.
Prerequisites: Physics 120(P) or 209(P) or cons instr.
General Education Requirements: NS
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 289 Internship in Astronomy, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in astron; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Last Taught: Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 400 Astrophysics I
3 cr. Undergraduate.
Introductory astrophysics for students with junior-/senior-level background in mathematics and physics. Light and matter; stars and the sun; extrasolar planets; compact objects.
Prerequisites: Astron 103(P) or 211(P) or cons instr; Physics 309(P); Physics 317(R) recom.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 401 Astrophysics II
3 cr. Undergraduate.
Continuation of Astron 400; for students with junior-/senior-level background in mathematics and physics. The Milky Way Galaxy; galactic evolution; structure of the Universe; cosmology.
Prerequisites: Astron 400(300)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 489 Internship in Astronomy, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in astron; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ASTRON 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Last Taught: Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/
Atmospheric Sciences (ATM SCI)

ATM SCI 100 Survey of Meteorology
3 cr. Undergraduate.
Concepts and principles of meteorology; cyclones, fronts, thunderstorms, tornadoes, air pollution, and climate. Interpretation of weather maps, charts, and forecasts. 2 hrs lec, 2 hrs lab-dis.
Prerequisites: none.
Course Rules: Counts as repeat of 3 cr Atm Sci 100 taken for 4 cr.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 106 Principles and Forecasting of the Weather
3 cr. Undergraduate.
What makes the weather, general circulation of the atmosphere, analysis of meteorological data and their use in predicting the weather.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 108 Rain and Snow
3 cr. Undergraduate.
Study of precipitation properties and processes in the atmosphere. Structure of precipitating systems ranging from small to large scale.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 109 Thunderstorms, Tornadoes and Hurricanes
3 cr. Undergraduate.
The study of basic processes that lead to dry and moist convection. Characteristic atmospheric structure and cloud microphysical processes that produce thunderstorms, tornadoes and hurricanes.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 110 The Origin, Composition, and Structure of the Planetary Atmospheres
3 cr. Undergraduate.
Origin of the solar system, its planets, and planetary atmospheres.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 194 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Spring 2019, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2013, Spring 2013, Spring 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 240 Introduction to Meteorology
3 cr. Undergraduate.
Quantitative approach to understanding fundamental concepts in meteorology. Radiation, heat balance of the atmosphere, thermodynamics, horizontal motion, general circulation, atmospheric observations, clouds, weather map analysis.
Prerequisites: Physics 209(P) & 214(P); Math 232(C).
Course Rules: Not open for cr to students with Atm Sci 201.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 289 Internship in Atmospheric Sciences, Lower Division
1-6 cr. Undergraduate.
Application of basic knowledge of Atmospheric Sciences in business, organizational, educational, political or other appropriate setting.
Prerequisites: soph st.; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2019, Fall 2013, Fall 1994, Fall 1992.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 330 Air-Pollution Meteorology
3 cr. Undergraduate/Graduate.
Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems.
Prerequisites: Atm Sci 240(P); Chem 102(P); stats course recom.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
ATM SCI 330G Air-Pollution Meteorology
3 cr. Undergraduate/Graduate.
Pollutant sources and sinks, fundamental pollutant chemistry, monitoring
techniques, averaging boundary layers and turbulence, diffusion theories,
diffusion models, regional and global-scale pollution problems.
**Prerequisites:** Atm Sci 240(P); Chem 102(P); stats course recom.
**Last Taught:** Fall 2019, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 350 Atmospheric Thermodynamics
3 cr. Undergraduate/Graduate.
Radiant energy, sensible heat, and atmospheric thermodynamics; the
gas laws; hydrostatic and psychrometric equations; dry and moist
convection; clouds and their physical and energy relations. Optional field
exercise.
**Prerequisites:** jr st; Physics 210(P); Math 232(P); Atm Sci 240(P).
**Last Taught:** Fall 2019, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 350G Atmospheric Thermodynamics
3 cr. Undergraduate/Graduate.
Radiant energy, sensible heat, and atmospheric thermodynamics; the
gas laws; hydrostatic and psychrometric equations; dry and moist
convection; clouds and their physical and energy relations. Optional field
exercise.
**Prerequisites:** jr st; Physics 210(P); Math 232(P); Atm Sci 240(P).
**Last Taught:** Fall 2019, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 351 Dynamic Meteorology I
3 cr. Undergraduate/Graduate.
The role of dynamics in atmospheric physics; equations of motion;
symmetric circulation models; gravity waves; Rossby waves, quasi-
geostrophy; introduction to instability of atmospheric flows.
**Prerequisites:** jr st; Atm Sci 240(P); Math 233(P).
**Last Taught:** Fall 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 351G Dynamic Meteorology I
3 cr. Undergraduate/Graduate.
The role of dynamics in atmospheric physics; equations of motion;
symmetric circulation models; gravity waves; Rossby waves, quasi-
geostrophy; introduction to instability of atmospheric flows.
**Prerequisites:** jr st; Atm Sci 240(P); Math 233(P).
**Last Taught:** Fall 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 352 Dynamic Meteorology II
3 cr. Undergraduate/Graduate.
Circulation, vorticity, potential vorticity; shallow water equations:
Poincare, Kelvin, and Rossby waves, energy and enstrophy; quasi-
geostrophy for a stratified atmosphere; barotropic and baroclinic
instability.
**Prerequisites:** jr st; Atm Sci 351(P); Math 234(P).
**Last Taught:** Spring 2019, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 352G Dynamic Meteorology II
3 cr. Undergraduate/Graduate.
Circulation, vorticity, potential vorticity; shallow water equations:
Poincare, Kelvin, and Rossby waves, energy and enstrophy; quasi-
geostrophy for a stratified atmosphere; barotropic and baroclinic
instability.
**Prerequisites:** jr st; Atm Sci 351(P); Math 234(P).
**Last Taught:** Spring 2019, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 360 Synoptic Meteorology I
4 cr. Undergraduate/Graduate.
Fundamental principles; synoptic-scale structure and dynamics;
equivalent barotropic model; vertical motions; introduction to and
application of quasi-geostrophic theory.
**Prerequisites:** jr st; Math 232(P); Physics 210(P); Atm Sci 240(P).
**Last Taught:** Fall 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 360G Synoptic Meteorology I
4 cr. Undergraduate/Graduate.
Fundamental principles; synoptic-scale structure and dynamics;
equivalent barotropic model; vertical motions; introduction to and
application of quasi-geostrophic theory.
**Prerequisites:** jr st; Math 232(P); Physics 210(P); Atm Sci 240(P).
**Last Taught:** Fall 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 361 Synoptic Meteorology II
4 cr. Undergraduate/Graduate.
Extension of quasi-geostrophic theory to Q-vectors; isentropic potential
vorticity applied to mid-latitude weather systems; fronts and jets.
**Prerequisites:** jr st; Atm Sci 360(P).
**Last Taught:** Spring 2019, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 361G Synoptic Meteorology II
4 cr. Undergraduate/Graduate.
Extension of quasi-geostrophic theory to Q-vectors; isentropic potential
vorticity applied to mid-latitude weather systems; fronts and jets.
**Prerequisites:** jr st; Atm Sci 360(P).
**Last Taught:** Spring 2019, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 381 Honors Seminar
3 cr. Undergraduate.
Selected topics.
**Prerequisites:** soph st; Honors 200(P); cons Honors College dir.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**General Education Requirements:** NS
**Last Taught:** Spring 2020, Fall 2018, Spring 2018, Fall 2007.
**Current Offerings:** https://catalog.uwm.edu/course-search/

ATM SCI 405 Atmospheric Science for in-Service Teachers
1-3 cr. Undergraduate/Graduate.
Basic, advanced or new topics in atmospheric sciences for in-service
teachers.
**Prerequisites:** in-service teacher; add'l prereqs depending on topic.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Current Offerings:** https://catalog.uwm.edu/course-search/
ATM SCI 405G Atmospheric Science for in-Service Teachers: 1-3 cr. Undergraduate/Graduate.
Basic, advanced or new topics in atmospheric sciences for in-service teachers.
**Prerequisites:** in-service teacher; add'l prereqs depending on topic.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 460G Mesoscale Circulations 3 cr. Undergraduate/Graduate.
Theory, analysis and forecasting of mesoscale flows, including convective systems, polar lows, terrain and surface-forced flows, jet streams and hurricanes.
**Prerequisites:** jr st; Atm Sci 360(R) or cons instr.
**Last Taught:** Spring 2019, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 464 Physical Meteorology: Cloud Physics 3 cr. Undergraduate/Graduate.
Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models.
**Prerequisites:** jr st; Physics 210(P); Math 232(P); Atm Sci 350(P).
**Last Taught:** Spring 2020, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 464G Physical Meteorology: Cloud Physics 3 cr. Undergraduate/Graduate.
Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models.
**Prerequisites:** jr st; Physics 210(P); Math 232(P); Atm Sci 350(P).
**Last Taught:** Spring 2020, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 470 Tropical Meteorology 3 cr. Undergraduate/Graduate.
**Prerequisites:** Atm Sci 351(P) or 360(P).
**Last Taught:** Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 470G Tropical Meteorology 3 cr. Undergraduate/Graduate.
**Prerequisites:** Atm Sci 351(P) or 360(P).
**Last Taught:** Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 480 The General Circulation and Climate Dynamics 3 cr. Undergraduate/Graduate.
Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic.
**Prerequisites:** jr st; Atm Sci 351(P).
**Last Taught:** Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 480G The General Circulation and Climate Dynamics 3 cr. Undergraduate/Graduate.
Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic.
**Prerequisites:** jr st; Atm Sci 351(P).
**Last Taught:** Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 497 Study Abroad: 1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
**Prerequisites:** jr st; acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**General Education Requirements:** NS
**Last Taught:** UWinteriM 2020, UWinteriM 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 497G Study Abroad: 1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
**Prerequisites:** jr st; acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**General Education Requirements:** NS
**Last Taught:** UWinteriM 2020, UWinteriM 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 499 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ATM SCI 500 Statistical Methods in Atmospheric Sciences 3 cr. Undergraduate/Graduate.
Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data.
**Prerequisites:** jr st; Atm Sci 240(P) or 350(P), & Math 232(P) or cons instr.
**Last Taught:** Fall 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
ATM SCI 500G Statistical Methods in Atmospheric Sciences
3 cr. Undergraduate/Graduate.
Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data.
Prerequisites: jr st; Math 234(P) or 350(P), & Math 232(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 505 Micrometeorology
3 cr. Undergraduate/Graduate.
Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics.
Prerequisites: jr st; Atm Sci 351(P) & 330(P).
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 505G Micrometeorology
3 cr. Undergraduate/Graduate.
Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics.
Prerequisites: jr st; Math 232(P); Atm Sci 350(P) & Physics 210(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 511 Seminar in Atmospheric Radiation and Remote Sensing
3 cr. Undergraduate/Graduate.
Basic laws of radiation, absorption and scattering, weather radar, retrieval of soundings, remote sensing and climate, weather satellites.
Prerequisites: jr st; Math 232(P); Atm Sci 350(P) & Physics 210(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 511G Seminar in Atmospheric Radiation and Remote Sensing
3 cr. Undergraduate/Graduate.
Basic laws of radiation, absorption and scattering, weather radar, retrieval of soundings, remote sensing and climate, weather satellites.
Prerequisites: jr st; Math 232(P); Atm Sci 350(P) & Physics 210(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 520 Advanced Dynamic Meteorology
3 cr. Undergraduate/Graduate.
Properties of atmospheric sound, gravity, Rossby waves. Baroclinic instability, cyclogenesis, frontogenesis, and the general circulation. Introduction to numerical prediction.
Prerequisites: jr st; Math 234(P), Atm Sci 350(P) & 351 (P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 520G Advanced Dynamic Meteorology
3 cr. Undergraduate/Graduate.
Properties of atmospheric sound, gravity, Rossby waves. Baroclinic instability, cyclogenesis, frontogenesis, and the general circulation. Introduction to numerical prediction.
Prerequisites: jr st; Math 234(P), Atm Sci 350(P) & 351 (P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 599 Capstone Experience
1 cr. Undergraduate.
Student writes a paper under supervision of an advisor on an approved topic not covered in the student’s regular course work.
Prerequisites: sr st; cons instr.
Course Rules: May be retaken w/chg in topic to 2 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 600G Data Analytics
3 cr. Undergraduate/Graduate.
Overs techniques used to analyze data and test scientific hypotheses for both diagnostic/understanding and prognostic/prediction applications, particularly in the atmospheric and related sciences.
Prerequisites: junior standing, or graduate standing, or consent of instructor.
Course Rules: Counts as repeat of ATM SCI 690 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 600G Data Analytics
3 cr. Undergraduate/Graduate.
Overs techniques used to analyze data and test scientific hypotheses for both diagnostic/understanding and prognostic/prediction applications, particularly in the atmospheric and related sciences.
Prerequisites: junior standing, or graduate standing, or consent of instructor.
Course Rules: Counts as repeat of ATM SCI 690 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 600G Seminar in Atmospheric Sciences:
3 cr. Undergraduate/Graduate.
Intensive topical studies of currently active problem areas.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. Satisfies L&S Seminar req.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 690 Seminar in Atmospheric Sciences:
1-3 cr. Undergraduate/Graduate.
Intensive topical studies of currently active problem areas.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. Satisfies L&S Seminar req.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 690G Seminar in Atmospheric Sciences:
1-3 cr. Undergraduate/Graduate.
Intensive topical studies of currently active problem areas.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. Satisfies L&S Seminar req.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 695 Internship in Atmospheric Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of atmospheric sciences in a business, organizational, educational, political or other appropriate setting.
Prerequisites: jr st; 300-level or above course in atm sci; 3.0 gpa in the major; cons supervising faculty.
Course Rules: One cr earned for 40 hrs work. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ATM SCI 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Independent meteorological study.
Prerequisites: jr st, 2.0 GPA, consent of instructor, Department Chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 700 Statistical Methods in Atmospheric Sciences II: Signal Detection
3 cr. Graduate.
Fundamentals of signal detection in noisy multivariate space-time data sets; empirical orthogonal functions, singular value decomposition, maximum covariance analysis and canonical correlation analysis; Fourier analysis; singular and multivariate spectrum analysis.
Prerequisites: graduate standing in physical sciences or engineering.
Course Rules: Counts as a repeat of ATM SCI 950 with the same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 705 Air Pollution Modeling
3 cr. Graduate.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 711 Cloud Dynamics
3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 725 Remote Sensing of the Environment
3 cr. Graduate.
Remote sensing technology, data processing, and analysis in meteorology, with application to oceanography and geology. Radar and acoustic sounding. Ert's, sms/goes, thermal scanner, conventional weather satellites.
Prerequisites: grad st in Physics, Math, Geog, Geo Sci, Engr, or Atm Sci.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 730 Numerical Weather Prediction
3 cr. Graduate.
Numerical methods for predicting atmospheric phenomena; numerical stability and dispersion; implicit and explicit damping methods; physical process parameterization; ensemble data assimilation techniques.
Prerequisites: graduate standing in physical sciences or engineering.
Course Rules: Counts as a repeat of ATM SCI 950 with the same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 750 Nonlinear Time Series Analysis
3 cr. Graduate.
Phase space reconstruction; singular spectrum analysis; prediction; dimension estimation; application of nonlinear time series analysis techniques to selected data sets.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 761 Advanced Synoptic/Mesoscale Meteorology
3 cr. Graduate.
Advanced analysis techniques for synoptic/mesoscale diagnoses, case studies of relevant circulation systems; role of planetary, synoptic, and mesoscale flows in system development.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 943 Seminar: Hydrology
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 950 Seminar on Topics in Atmospheric Sciences:
3 cr. Graduate.
Selected topics in atmospheric dynamics, satellite meteorology, atmospheric & oceanic convection, air & water pollution, numerical prediction remote sensing, & others.
Prerequisites: grad st in physical sciences or engineering. Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ATM SCI 990 Master's Thesis
1-8 cr. Graduate.
Prerequisites: grad st; cons instr & completed thesis proposal.
Current Offerings: https://catalog.uwm.edu/course-search/
**ATM SCI 997 Doctoral Externship**
1-12 cr. Graduate.
Externship for students enrolled in the Atmospheric Science PhD program.
Prerequisites: grad st; admis to candidacy for the PhD.
Course Rules: Retakable to 12 cr max.
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

**ATM SCI 998 Doctoral Dissertation**
1-12 cr. Graduate.
Prerequisites: grad st; admis to candidacy for PhD.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

**ATM SCI 999 Advanced Independent Reading**
1-12 cr. Graduate.
Independent meteorological study.
Prerequisites: grad st & cons instr.
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

**Biological Sciences (BIO SCI)**

**BIO SCI 100 Survey of Zoology**
3 cr. Undergraduate.
Survey of the animal kingdom, with emphasis on the importance of animals to humans. Study of phyla as represented by types, classification, structure, and life histories. Introduction to cytology, genetics, evolution, and ornithology. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
Course Rules: Does not carry cr toward bio sci major.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 101 General Survey of Microbiology**
4 cr. Undergraduate.
The nature and activities of microorganisms, including surveys of bacteria, fungi, viruses, immunology, and disease applications. 3 hrs lec, 3 hrs lab.
Prerequisites: Chem 101(P) or 102(P).
Course Rules: Intended primarily for nursing students. Does not carry cr toward bio sci major.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 102 Elements of Biology**
3 cr. Undergraduate.
Organization and function of living systems. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
Course Rules: Intended for non-majors; does not carry cr toward bio sci major.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 103 Topics in Modern Biology**
3 cr. Undergraduate.
How biological factors, processes, and reactions affect living systems. Emphasis on current issues in biology such as genetic engineering, bioethics, and population concerns.
Prerequisites: none, except as may be required for specific topics.
Course Rules: Intended for non-majors; does not carry cr toward bio sci major. May be retaken w/chg in topic to 9 cr max. Students w/cr in Bio Sci 226 or 250 may not take 103 w/those topics.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 104 Plants in Today's World**
3 cr. Undergraduate.
Introduction to major plant groups; principles of structure and function, ecology, and gardening. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 150 Foundations of Biological Sciences I**
4 cr. Undergraduate.
Fundamental principles of biology (ecology, evolution, genetics, molecular and cell biology) integrated through evolutionary framework. First of two-course sequence for bio sci, other science majors. 3 hrs lec, 3 hrs lab. Open to freshmen.
Prerequisites: Chem 100(P) or 102(P) or conc reg.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 152 Foundations of Biological Sciences II**
4 cr. Undergraduate.
Organismal diversity, emphasizing structural and functional relationships in microorganisms, plants, and animals. Second of a two-course sequence for Bio Sci & other natural science majors. 3 hr lec, 3 hr lab.
Prerequisites: grade above C- in Bio Sci 150(P).
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

**BIO SCI 194 First-Year Seminar**
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2015, Fall 2014, Fall 2012, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 201 Human Structure and Function
3 cr. Undergraduate.
Brief introduction to human anatomy and physiology. 2 hrs lec; 3 hrs lab.
Prerequisites: none.
General Education Requirements: NS+, QLB
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 202 Anatomy and Physiology I
4 cr. Undergraduate.
Anatomy and physiology of the human body including cell, tissues, skeletal, muscular, and nervous systems. 3 hrs lec, 3 hrs lab.
Prerequisites: none.
Course Rules: Required of students in nursing, med tech & med rec admin. Cannot be combined with Bio Sci 150 & 203 for more than 9 cr toward the bio sci major.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 203 Anatomy and Physiology II
4 cr. Undergraduate.
Anatomy and physiology of the human body including cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. 3 hrs lec, 3 hrs lab.
Prerequisites: C or better in either Bio Sci 202(P) or 315(P).
Course Rules: Cannot be combined with Bio Sci 150 & 202 for more than a total of 9 cr toward bio sci major. Cell & Molec Bio.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 206 Biology of Women
3 cr. Undergraduate.
An anatomical and physiological view of the human female life cycle with emphasis on women's health.
Prerequisites: course in biology.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 210 Introduction to Fermentation Biology
3 cr. Undergraduate.
Principles and microbiology of fermentation in the production of food and beverages.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 219 Internship in Biological Sciences, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Bio Sci; 2.50 gpa; cons supervising faculty member.
Course Rules: Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major.
Last Taught: Spring 2016, Fall 2015, Summer 2015, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 290 Independent Study and Research:
1-3 cr. Undergraduate.
Directed library or laboratory/field research in biological sciences.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Specific topics may satisfy major area req; consult dept.
May be retaken to 6 cr max. Does not count as a Bio Sci lab course.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs and srs.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Specific topics may satisfy major area req; consult dept.
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 310 General Ecology
4 cr. Undergraduate.
Complex interrelationships between organisms and their environment. Physiological and behavioral adaptations, populations, biotic communities, ecosystems. 3 hrs lec, 3 hrs lab, field work.
Prerequisites: grade of C or better in Bio Sci 152(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 315 Cell Biology
3 cr. Undergraduate.
Cell structure and function at the molecular level. Flow of material, energy, and information within prokaryotic and eukaryotic cells. 3 hrs lec.
Prerequisites: grades of C or better in both Bio Sci 152(P) & Chem 104(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 316 Laboratory in Genetics and Cell Biology
2 cr. Undergraduate.
Laboratory studies in genetics and cell biology using microorganisms, plants, and animals. Hypothesis testing, data collection, computer and literature analyses, and writing of scientific papers. 1 hr dis, 3 hr lab.  
**Prerequisites:** grades of C or better in both Bio Sci 152(P) & Chem 104(P); Bio Sci 315(C) or 325(C).  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 325 Genetics
4 cr. Undergraduate.
Principles of inheritance. Fundamental concepts of genetics. 3 hrs lec, 2 hrs dis.  
**Prerequisites:** grade of C or better in Bio Sci 150(P); Bio Sci 152(C) or 203(P); Chem 104(C).  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 350 Human Parasitology
4 cr. Undergraduate.
Biology, diagnosis and epidemiology of human parasitic diseases. For life science and clinical lab science students interested in public health. 3 hrs lec, 3 hrs lab.  
**Prerequisites:** jr st; Bio Sci 310(C) or Bio Sci 325(C) or cons instr.  
**Last Taught:** Fall 2014, Fall 2013, Fall 2012, Fall 2011.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 354 Introduction to Neuroscience I: From Neuron to Brain
3 cr. Undergraduate.
Basic principles of cellular, molecular, and developmental neuroscience; structure/function of neurons and glia, chemical and electrical signaling, brain development, and neurological diseases.  
**Prerequisites:** C or better in Bio Sci 315(P) or in Psych 254(P).  
**Course Rules:** Cell & Molec Bio. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 354 are jointly offered; they count as repeats of one another.  
**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 355 Introduction to Neuroscience II: From Brain to Behavior
3 cr. Undergraduate.
Basic principles of neural systems and behavior; analysis of systems for sensation and perception, learning and memory, language, emotion, and motion.  
**Prerequisites:** BioSci 152(P) & 315(C), or Psych 254(P).  
**Course Rules:** Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 355 & Psych 355 are jointly offered; they count as repeats of one another.  
**Last Taught:** Spring 2012, Spring 2010, Spring 2009.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 356 Developmental Biology
3 cr. Undergraduate.
Development of living organisms at the molecular, cellular, and organismal levels. 3 hrs lec.  
**Prerequisites:** grade of C or better in either Bio Sci 315(P) or 325(P) or cons instr.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 358 Birds of Wisconsin
2 cr. Undergraduate.
Bird taxonomy and ecology, including the identification of Wisconsin birds. 4 hrs lab & field work.  
**Prerequisites:** jr st; Bio Sci 150(P).  
**Course Rules:** Field trip schedules (if any) and fees will be announced in class.  
**Last Taught:** Spring 2019, Spring 2017, Spring 2016, Spring 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 370 Mammalian Physiology
3 cr. Undergraduate.
Cellular and organ system physiology and comparative aspects of structure-function relationships.  
**Prerequisites:** BIO SCI 315(P) or consent of instructor.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 372 Animal Physiology and Neurobiology Laboratory
1 cr. Undergraduate.
Neural integration of animal cells and organ systems. Comparative experimental approach examining structure-function relationships. 3 hrs lab.  
**Prerequisites:** Bio Sci 370(C) or Bio Sci/Psych 354(C) or 355(C).  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Fall 2017, Fall 2015, Fall 2014, Fall 2013.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 380 Honors Seminar
3 cr. Undergraduate.
Selected topics in modern and traditional biology and their relation to society.  
**Prerequisites:** soph st; Honors 200(P); cons Honors College dir.  
**Course Rules:** Specific topics may satisfy major area req; consult dept. May be retaken w/chg in topic to 9 cr max.  
**General Education Requirements:** NS  
**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

BIO SCI 383 General Microbiology
4 cr. Undergraduate.
Nature and properties of microorganisms. Molecular biology and genetics of bacteria and viruses. Major groups, ecological relationships, and taxonomy. 3 hrs lec, 4 hrs lab.  
**Prerequisites:** a grade of C or better in BIO SCI 152(P); BIO SCI 325(C) or consent of instructor; CHEM 341(C) or CHEM 343(C).  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
BIO SCI 401 Immunology
3 cr. Undergraduate/Graduate.
Fundamentals of the immune response, including cellular, physiological and molecular aspects. 3 hrs lec.
Prerequisites: jr st; grade of C or better in Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P); or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 401G Immunology
3 cr. Undergraduate/Graduate.
Fundamentals of the immune response, including cellular, physiological and molecular aspects. 3 hrs lec.
Prerequisites: jr st; grade of C or better in Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P); or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 402G Immunological Techniques
3 cr. Undergraduate/Graduate.
Modern methods and protocols in immunology. 6 hrs lab.
Prerequisites: jr st; Bio Sci 401(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 407 Plant Systematics and Evolution
3 cr. Undergraduate/Graduate.
Survey of important plant families; plant systematic theory, current techniques in data collection and analysis. 2 hrs lec/dis; 4 hrs lab.
Prerequisites: jr st; Bio Sci 152(P); Bio Sci 310(C) or 325(C); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 402 Immunological Techniques
3 cr. Undergraduate/Graduate.
Modern methods and protocols in immunology. 6 hrs lab.
Prerequisites: jr st; Bio Sci 401(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 407G Plant Systematics and Evolution
3 cr. Undergraduate/Graduate.
Survey of important plant families; plant systematic theory, current techniques in data collection and analysis. 2 hrs lec/dis; 4 hrs lab.
Prerequisites: jr st; Bio Sci 152(P); Bio Sci 310(C) or 325(C); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 408 General Virology
3 cr. Undergraduate/Graduate.
Basic course in nature of viruses: bacterial, plant, and animal. The use of viruses in model systems for molecular biology and agents of disease.
Prerequisites: jr st; Bio Sci 325(P); Bio Sci 315(P) or 383(P); Chem 501(R).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 408G General Virology
3 cr. Undergraduate/Graduate.
Basic course in nature of viruses: bacterial, plant, and animal. The use of viruses in model systems for molecular biology and agents of disease.
Prerequisites: jr st; Bio Sci 325(P); Bio Sci 315(P) or 383(P); Chem 501(R).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 406 Marine Biology
3 cr. Undergraduate/Graduate.
Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 310(C) or consent of instructor.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 406G Marine Biology
3 cr. Undergraduate/Graduate.
Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 310(C) or consent of instructor.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 310G Evolutionary Biology of Amphibians and Reptiles
3 cr. Undergraduate/Graduate.
Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec.
Prerequisites: jr st; Bio Sci 310(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 410 Animal Behavior-Ethology
3 cr. Undergraduate/Graduate.
Animal behavior from the biologist's point of view, relating species-characteristic behavior to environment, internal function, ontogeny, and evolution. 3 hrs lec/dis.
Prerequisites: jr st; Bio Sci 310(P) or 316(C).
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 410G Animal Behavior-Ethology
3 cr. Undergraduate/Graduate.
Animal behavior from the biologist's point of view, relating species-characteristic behavior to environment, internal function, ontogeny, and evolution. 3 hrs lec/dis.
Prerequisites: jr st; Bio Sci 310(P) or 316(C).
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 411 Evolutionary Biology of Amphibians and Reptiles
3 cr. Undergraduate/Graduate.
Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec.
Prerequisites: jr st; Bio Sci 310(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 411G Evolutionary Biology of Amphibians and Reptiles
3 cr. Undergraduate/Graduate.
Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec.
Prerequisites: jr st; Bio Sci 310(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 451 Field Methods in Conservation
3 cr. Undergraduate/Graduate.
Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.
Prerequisites: jr st, Bio Sci 310(P) or equiv or cons instr.
Course Rules: Jointly offered with & counts as repeat of CES 451.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 451G Field Methods in Conservation
3 cr. Undergraduate/Graduate.
Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.
Prerequisites: jr st, Bio Sci 310(P) or equiv or cons instr.
Course Rules: Jointly offered with & counts as repeat of CES 451.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 455 Cellular, Molecular and Developmental Neurobiology
3 cr. Undergraduate/Graduate.
Nervous systems from cellular, molecular, and developmental perspectives; from basic biophysical properties of neurons to cellular and molecular basis of nervous system development and function.
Prerequisites: jr st, of grade C or better in Bio Sci 315(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 455G Cellular, Molecular and Developmental Neurobiology
3 cr. Undergraduate/Graduate.
Nervous systems from cellular, molecular, and developmental perspectives; from basic biophysical properties of neurons to cellular and molecular basis of nervous system development and function.
Prerequisites: jr st, grade of C or better in Bio Sci 315(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 458 Community Ecology
3 cr. Undergraduate/Graduate.
Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities.
Prerequisites: jr st, Bio Sci 152(P) & 310(P) or cons instr; or grad st.
Last Taught: Spring 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 458G Community Ecology
3 cr. Undergraduate/Graduate.
Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities.
Prerequisites: jr st, Bio Sci 152(P) & 310(P) or cons instr; or grad st.
Last Taught: Spring 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 465 Biostatistics
3 cr. Undergraduate/Graduate.
Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology.
Prerequisites: jr st, Bio Sci 150(P); Math 105(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 465G Biostatistics
3 cr. Undergraduate/Graduate.
Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology.
Prerequisites: jr st, Bio Sci 150(P); Math 105(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 469 Genomic Data Analysis
2 cr. Undergraduate/Graduate.
Methods for the analysis of large-scale genomic data sets, including whole-genome association studies and transcriptomics.
Prerequisites: jr st, Bio Sci 325(P) & 465(P) or equiv; or cons instr.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 469G Genomic Data Analysis
2 cr. Undergraduate/Graduate.
Methods for the analysis of large-scale genomic data sets, including whole-genome association studies and transcriptomics.
Prerequisites: jr st, Bio Sci 325(P) & 465(P) or equiv; or cons instr.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 475 Tropical Biology
3 cr. Undergraduate/Graduate.
Ecology and biogeography of various types of tropical forests, including required field trip to area being studied.
Prerequisites: jr st, Bio Sci 310(P); cons instr.
Course Rules: Required field trip at participants’ expense. May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 475G Tropical Biology
3 cr. Undergraduate/Graduate.
Ecology and biogeography of various types of tropical forests, including required field trip to area being studied.
Prerequisites: jr st, BioSci 310(P); cons instr.
Course Rules: Required field trip at participants’ expense. May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 480 Ecological Genetics
3 cr. Undergraduate/Graduate.
Origin and maintenance of genetic variation within and among populations. Fundamental theory and application to ecology and conservation.
Prerequisites: jr st, Bio Sci 310(P) & 325(P); or equiv.
Course Rules: 3 hrs lec/dis.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
**Biological Sciences (BIO SCI)**

**BIO SCI 480G Ecological Genetics**

3 cr. Undergraduate/Graduate.
Origin and maintenance of genetic variation within and among populations. Fundamental theory and application to ecology and conservation.

**Prerequisites:** jr st, Bio Sci 310(P) & 325(P); or equiv.

**Course Rules:** 3 hrs lec/dis.

**Last Taught:** Fall 2017, Fall 2015.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 489 Internship in Biological Sciences, Upper Division**

1-6 cr. Undergraduate.
Application of advanced principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Bio Sci; 2.50 gpa; cons supervising faculty member.

**Course Rules:** Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major.

**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 490 Molecular Genetics**

3 cr. Undergraduate/Graduate.
Molecular mechanisms of higher organisms and model systems. Topics include gene structure, genetic and genomic analysis, gene expression and regulation. 2 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 315(C) & 316(C).

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Spring 2020.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 490G Molecular Genetics**

3 cr. Undergraduate/Graduate.
Molecular mechanisms of higher organisms and model systems. Topics include gene structure, genetic and genomic analysis, gene expression and regulation. 2 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 315(C) & 316(C).

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Spring 2020.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 495 Internship in Biotechnology, Upper Division**

3-6 cr. Undergraduate.
Application of advanced principles in microbiology and biotechnology in appropriate settings.

**Prerequisites:** jr st; Bio Sci 383(303)(P) & 529(650)(P); declared microbio major; 2.5 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2017, Fall 2016.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 496 UROP Apprenticeship, Upper-Level**

1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Fall 2019, Spring 2017, Fall 2016, Fall 2015.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016, Fall 2014.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016, Fall 2014.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 498 Genetics of Development and Cancer**

3 cr. Undergraduate/Graduate.
The genetic mechanisms governing animal development, cellular proliferation, and cellular death. Focus on how these cellular processes are investigated using experimental biology and human cancers.

**Prerequisites:** junior standing and a grade of C or better in BIO SCI 325(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** https://catalog.uwm.edu/course-search/

**BIO SCI 498G Genetics of Development and Cancer**

3 cr. Undergraduate/Graduate.
The genetic mechanisms governing animal development, cellular proliferation, and cellular death. Focus on how these cellular processes are investigated using experimental biology and human cancers.

**Prerequisites:** junior standing and a grade of C or better in BIO SCI 325(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** https://catalog.uwm.edu/course-search/
BIO SCI 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add’l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Specific topics may satisfy major area req; consult dept.
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 500 Plant Physiology
3 cr. Undergraduate/Graduate.
Major biological activities of plants; including growth, development, and
metabolism. 3 hrs lec/dis.
Prerequisites: jr st; Bio Sci 325(P), Bio Sci 310(P) or 315(P) or cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 500G Plant Physiology
3 cr. Undergraduate/Graduate.
Major biological activities of plants; including growth, development, and
metabolism. 3 hrs lec/dis.
Prerequisites: jr st; Bio Sci 325(P), Bio Sci 310(P) or 315(P) or cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory
3 cr. Undergraduate/Graduate.
Hands-on examination of ecophysiological activities in plants and
aquatic ecosystems using diverse field and lab experimental methods. 1
hr lec, 1 hr dis. 2 hrs lab.
Prerequisites: jr st; Bio Sci 325(P) or 310(P).
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2016, Fall 1987.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 501G Plant and Aquatic Ecophysiology Laboratory
3 cr. Undergraduate/Graduate.
Hands-on examination of ecophysiological activities in plants and
aquatic ecosystems using diverse field and lab experimental methods. 1
hr lec, 1 hr dis. 2 hrs lab.
Prerequisites: jr st; Bio Sci 325(P) or 310(P).
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2016, Fall 1987.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 502 Introduction to Programming and Modeling in Ecology and
Evolution
3 cr. Undergraduate/Graduate.
Using R statistical language to teach script programming to address
data manipulation, statistical modeling, and simple simulations in an
ecological and evolutionary context.
Prerequisites: jr st; intro stats (e.g., Bio Sci 465).
Course Rules: Counts as repeat of Bio Sci 599 w/similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 502G Introduction to Programming and Modeling in Ecology and
Evolution
3 cr. Undergraduate/Graduate.
Using R statistical language to teach script programming to address
data manipulation, statistical modeling, and simple simulations in an
ecological and evolutionary context.
Prerequisites: jr st; intro stats (e.g., Bio Sci 465).
Course Rules: Counts as repeat of Bio Sci 599 w/similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 505 Conservation Biology
3 cr. Undergraduate/Graduate.
Genetic and ecological approaches to the conservation of biological
diversity. Topics include biology of rare plants and animals, design of
nature reserves, and restoration ecology. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 325(260)(P).
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 505G Conservation Biology
3 cr. Undergraduate/Graduate.
Genetic and ecological approaches to the conservation of biological
diversity. Topics include biology of rare plants and animals, design of
nature reserves, and restoration ecology. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 325(260)(P).
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 507 Environmental Microbiology
3 cr. Undergraduate/Graduate.
Bacteria from the environment; emphasis on aquatic systems;
biogeochemical cycles, bioremediation, and environmental control of
gene expression.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 507G Environmental Microbiology
3 cr. Undergraduate/Graduate.
Bacteria from the environment; emphasis on aquatic systems;
biogeochemical cycles, bioremediation, and environmental control of
gene expression.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 511 Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical,
genetic, and physiological adaptations to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & FrshWtr 511 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 511G Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & FrshWtr 511 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 512 Limnology I
3 cr. Undergraduate/Graduate.
The ecology of freshwater ecosystems as influenced by physical and chemical processes.
Prerequisites: jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 512G Limnology I
3 cr. Undergraduate/Graduate.
The ecology of freshwater ecosystems as influenced by physical and chemical processes.
Prerequisites: jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 523 Evolution and Ecology of Birds
3 cr. Undergraduate/Graduate.
Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 310(P).
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 523G Evolution and Ecology of Birds
3 cr. Undergraduate/Graduate.
Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 310(P).
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 529 Molecular Biology of Microorganisms
3 cr. Undergraduate/Graduate.
Molecular analysis of microbial genetic systems of bacteria, phage, fungi, and yeast. 2 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 529G Molecular Biology of Microorganisms
3 cr. Undergraduate/Graduate.
Molecular analysis of microbial genetic systems of bacteria, phage, fungi, and yeast. 2 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 532 Behavioral Ecology
3 cr. Undergraduate/Graduate.
Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging.
Prerequisites: jr st; Bio Sci 310(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 532G Behavioral Ecology
3 cr. Undergraduate/Graduate.
Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging.
Prerequisites: jr st; Bio Sci 310(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 535 Bacterial Pathogenesis
3 cr. Undergraduate.
Structural and physiological characteristics of important bacteria causing human and animal diseases. Interactions between pathogen and host, including host defense mechanisms.
Prerequisites: jr st; grade of C or better in BIO SCI 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 536 Applied Microbiology and Biotechnology
3 cr. Undergraduate/Graduate.
Real-world application of natural and genetically-engineered microorganisms to bioremediation, waste treatment, agriculture and production of food, beverages, chemicals, fuels, enzymes, vaccines and pharmaceuticals. 3 hrs lec.
Prerequisites: jr st; Bio Sci 383(P) or cons instr.
Course Rules: Cell and Molec Bio; Microbio.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 536G Applied Microbiology and Biotechnology
3 cr. Undergraduate/Graduate.
Real-world application of natural and genetically-engineered microorganisms to bioremediation, waste treatment, agriculture and production of food, beverages, chemicals, fuels, enzymes, vaccines and pharmaceuticals. 3 hrs lec.
Prerequisites: jr st; Bio Sci 383(P) or cons instr.
Course Rules: Cell and Molec Bio; Microbio.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 537 Industrial Microbiology and Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques.
Prerequisites: Bio Sci 383(P), Chem 501(P).
Course Rules: Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another. Cell & Molec Bio; Microbio.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 537G Industrial Microbiology and Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques.
Prerequisites: Bio Sci 383(P); Chem 501(P).
Course Rules: Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another. Cell & Molec Bio; Microbio.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 539 Laboratory Techniques in Molecular Biology
4 cr. Undergraduate.
Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab.
Prerequisites: jr st; BIO Sci 315(P) or BIO Sci 325(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 540G Microbial Diversity and Physiology
3 cr. Undergraduate/Graduate.
Physiology, ecology, and diversity of microorganisms. 3 hrs lec.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 542 Biological Electron Microscopy
3 cr. Undergraduate/Graduate.
Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens.
Prerequisites: jr st; Bio Sci 315(P) & 316(P), or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 542G Biological Electron Microscopy
3 cr. Undergraduate/Graduate.
Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens.
Prerequisites: jr st; Bio Sci 315(P) & 316(P), or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 543 Scanning Electron Microscopy Laboratory
2 cr. Undergraduate/Graduate.
Lab/dis with an emphasis on 'hands-on' exercises including biological specimen prep, microscope operation and photography.
Prerequisites: jr st; Bio Sci 542(C) & cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 543G Scanning Electron Microscopy Laboratory
2 cr. Undergraduate/Graduate.
Lab/dis with an emphasis on 'hands-on' exercises including biological specimen prep, microscope operation and photography.
Prerequisites: jr st; Bio Sci 542(C) & cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 544 Transmission Electron Microscopy Laboratory
3 cr. Undergraduate/Graduate.
Lab/dis with an emphasis on 'hands-on' exercises including fixation and sectioning of biological specimens, microscope operation and photography.
Prerequisites: jr st; 3 cr in Bio Sci 542(C); cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 544G Transmission Electron Microscopy Laboratory
3 cr. Undergraduate/Graduate.
Lab/dis with an emphasis on 'hands-on' exercises including fixation and sectioning of biological specimens, microscope operation and photography.
Prerequisites: jr st; 3 cr in Bio Sci 542(C); cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 545G Physiology of Reproduction
3 cr. Undergraduate/Graduate.
Mammalian reproductive physiology with emphasis on humans; neuroendocrine control of reproductive cycles, pregnancy, and lactation; clinical implications; biological aspects of human population control.
Prerequisites: jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 545G Physiology of Reproduction
3 cr. Undergraduate/Graduate.
Mammalian reproductive physiology with emphasis on humans; neuroendocrine control of reproductive cycles, pregnancy, and lactation; clinical implications; biological aspects of human population control.
Prerequisites: jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 556 Developmental Neurobiology
3-4 cr. Undergraduate/Graduate.
The mechanisms involved in the genesis and maintenance of nervous system organization. 3 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 354(P) or 356(P) or cons instr.
Course Rules: Cell & Molec Bio. Grad students enroll in lec & dis for 4 cr. Undergrads may enroll in lec only for 3 cr or lec & dis for 4 cr.
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 556G Developmental Neurobiology
3-4 cr. Undergraduate/Graduate.
The mechanisms involved in the generation and maintenance of nervous system organization. 3 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 354(P) or 356(P) or cons instr.
Course Rules: Cell & Molec Bio. Grad students enroll in lec & dis for 4 cr. Undergrads may enroll in lec only for 3 cr or lec & dis for 4 cr.
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 562 Topics in Field Biology
1-2 cr. Undergraduate/Graduate.
Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction.
Prerequisites: jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 562G Topics in Field Biology
1-2 cr. Undergraduate/Graduate.
Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction.
Prerequisites: jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 563 Finfish Aquaculture and Nutrition Principles
3 cr. Undergraduate/Graduate.
Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.
Prerequisites: jr st; BIO SCI 152(P) and CHEM 104(P).
Course Rules: BIO SCI 563/FRSHWTR 563 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 563G Finfish Aquaculture and Nutrition Principles
3 cr. Undergraduate/Graduate.
Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.
Prerequisites: jr st; BIO SCI 152(P) and CHEM 104(P).
Course Rules: BIO SCI 563/FRSHWTR 563 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 564 Endocrinology
3 cr. Undergraduate/Graduate.
Physiological, biochemical, and phylogenetic aspects of hormonal communication; emphasis on vertebrates. 3 hrs lec.
Prerequisites: jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 565G Gene Regulation in Stem Cells and Regeneration
3 cr. Undergraduate.
Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.
Prerequisites: junior standing and BIO SCI 315(P) or BIO SCI 325(P).
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 566 Cell Biology of Human Disease
3 cr. Undergraduate.
Cellular and molecular mechanisms of human developmental diseases; cell signaling in the treatment and prevention of diseases and genetic syndromes.
Prerequisites: jr st and BIO SCI 315(P).
Course Rules: Cell & Molec Bio.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 567 Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st; BIO SCI 152(P), CHEM 104(P).
Course Rules: Previously FRSHWTR 565. BIO SCI 567/FRSHWTR 567 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 567G Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st; BIO SCI 152(P), CHEM 104(P).
Course Rules: Previously FRSHWTR 565. BIO SCI 567/FRSHWTR 567 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
BIO SCI 572 Functional Genomics
3 cr. Undergraduate/Graduate.
Organization, function, and analysis of genes, proteins, and genomes using internet databases and bioinformatic tools; current knowledge of genomes in various organisms; transcriptomics and proteomics. 2 hrs lec, 1 hr dis.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 572G Functional Genomics
3 cr. Undergraduate/Graduate.
Organization, function, and analysis of genes, proteins, and genomes using internet databases and bioinformatic tools; current knowledge of genomes in various organisms; transcriptomics and proteomics. 2 hrs lec, 1 hr dis.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 573 Cellular Evolution
3 cr. Undergraduate/Graduate.
Theories concerning the origin of life on Earth and the evolution of cellular structure and function, culminating in the emergence of the multicellular kingdoms. 2 hrs lec, 1 hr dis.
Prerequisites: sr st; Bio Sci 315(P) or 325(P); Bio Sci 316(P); Chem 341/342(P) or 343/344/345(P), or cons instr; Bio Sci 383(R) or 490(R) or Chem 501(R) or 601(R).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 573G Cellular Evolution
3 cr. Undergraduate/Graduate.
Theories concerning the origin of life on Earth and the evolution of cellular structure and function, culminating in the emergence of the multicellular kingdoms. 2 hrs lec, 1 hr dis.
Prerequisites: sr st; Bio Sci 315(P) or 325(P); Bio Sci 316(P); Chem 341/342(P) or 343/344/345(P), or cons instr; Bio Sci 383(R) or 490(R) or Chem 501(R) or 601(R).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 575 Evolutionary Biology
3 cr. Undergraduate/Graduate.
Evolutionary processes in natural populations. Topics include mating patterns, speciation, gene flow, natural selection, and genetic approaches to conservation. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 325(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 575G Evolutionary Biology
3 cr. Undergraduate/Graduate.
Evolutionary processes in natural populations. Topics include mating patterns, speciation, gene flow, natural selection, and genetic approaches to conservation. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 325(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 576 Neuropharmacology
3 cr. Undergraduate/Graduate.
Cellular and molecular mechanisms of drug action on the nervous system. Topic include drug affects on neurotransmitters, receptors, cell signaling, and neurological disease/disorders.
Prerequisites: jr st; BioSci/Psych 354(P) or 355(P) or Psych 654(P) or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 576G Neuropharmacology
3 cr. Undergraduate/Graduate.
Cellular and molecular mechanisms of drug action on the nervous system. Topic include drug affects on neurotransmitters, receptors, cell signaling, and neurological disease/disorders.
Prerequisites: jr st; BioSci/Psych 354(P) or 355(P) or Psych 654(P) or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 577 RNA Structure, Function, and Metabolism
3 cr. Undergraduate/Graduate.
Structural and functional complexity of RNA. RNA as genetic material, enzymes and regulators; micro RNAs as potential therapeutics.
Prerequisites: jr st; Bio Sci 325(P) or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 577G RNA Structure, Function, and Metabolism
3 cr. Undergraduate/Graduate.
Structural and functional complexity of RNA. RNA as genetic material, enzymes and regulators; micro RNAs as potential therapeutics.
Prerequisites: jr st; Bio Sci 325(P) or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: https://catalog.uwm.edu/course-search/
**BIO SCI 599 Special Topics in Biological Sciences:**
1-3 cr. Undergraduate/Graduate.
In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Spring 2016, Fall 2014.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 599G Special Topics in Biological Sciences:**
1-3 cr. Undergraduate/Graduate.
In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Spring 2016, Fall 2014.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 611 Seminar on Recent Advances in Limnology and Oceanography**
2 cr. Undergraduate/Graduate.
Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic.
**Prerequisites:** sr st; Bio Sci 310(P); or Bio Sci 315(P) & 316(P); or Bio Sci 383(P).
**Course Rules:** Can no longer be retaken for credit.
**Last Taught:** Fall 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 611G Seminar on Recent Advances in Limnology and Oceanography**
2 cr. Undergraduate/Graduate.
Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic.
**Prerequisites:** sr st; Bio Sci 310(P); or Bio Sci 315(P) & 316(P); or Bio Sci 383(P).
**Course Rules:** Can no longer be retaken for credit.
**Last Taught:** Fall 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 670 Senior Seminar in Biological Sciences**
1 cr. Undergraduate.
Examination of biological literature and preparation, presentation, and discussion of oral reports by individual students.
**Prerequisites:** sr st; Bio Sci lab course numbered 300-349; declared Bio Sci major.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 671 Undergraduate Seminar in Microbiology**
1 cr. Undergraduate.
Examination of microbiological literature; preparation, presentation, and discussion of oral reports by individual students.
**Prerequisites:** sr st; Bio Sci 383(P).
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 672 Undergraduate Seminar in Cell and Molecular Biology**
1 cr. Undergraduate.
Examination of cell and molecular biology literature; preparation, presentation, and discussion of oral reports by individual students.
**Prerequisites:** sr st; Bio Sci 315(P) & 316(P).
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 675 Independent Study in Freshwater Sciences for Biological Sciences Students**
1-3 cr. Undergraduate.
Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.
**Prerequisites:** jr st; Bio Sci 325(P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.
**Course Rules:** Bio Sci 695 & FrshWtr 695 are jointly offered; w/same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
**Last Taught:** Spring 2019, Fall 2017, Fall 2015, Spring 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 677 Independent Study in Cell and Molecular Biology**
1-3 cr. Undergraduate.
Independent and original research conducted under the direction of a cell/molecular biology faculty or staff member.
**Prerequisites:** jr st; Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
**Course Rules:** May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 678 Independent Study in Microbiology**
1-3 cr. Undergraduate.
Introduction to research. Independent and original study conducted under the direction of a faculty or staff member.
**Prerequisites:** jr st; Bio Sci 383(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
**Course Rules:** May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**BIO SCI 695 Independent Study**
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member. Requires submission of a formal study proposal.
**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 310(P) or Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
**Course Rules:** May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
**BIO SCI 725** Recent Advances in Molecular Microbiology and Immunology  
3 cr. Graduate.  
Current developments and research in molecular microbiology and/or immunology. 3 hrs lec.  
**Prerequisites:** grad st or cons instr.  
**Course Rules:** Retakable w/chg in topic to 9 cr max.  
**Last Taught:** Spring 2011, Spring 2010, Fall 2007, Fall 2006.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 739** Laboratory Techniques in Molecular Biology  
4 cr. Graduate.  
Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab.  
**Prerequisites:** graduate standing.  
**Course Rules:** Not open to students w/ credit in BIO SCI 539.  
**Last Taught:** Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 745** Gene Regulation in Stem Cells and Regeneration  
3 cr. Graduate.  
Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.  
**Prerequisites:** graduate standing.  
**Course Rules:** Not open to students w/ credit in BIO SCI 565.  
**Last Taught:** Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 766** Cell Biology of Human Disease  
3 cr. Graduate.  
Cellular and molecular mechanisms of human developmental diseases; cell signaling in the treatment and prevention of diseases and genetic syndromes.  
**Prerequisites:** Graduate standing.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 780** Experimental Microbiology  
4 cr. Graduate.  
Modern experimental approaches to study of microbial physiology and genetics. 2 hrs lec/6 hrs lab.  
**Prerequisites:** Graduate standing.  
**Last Taught:** Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 800** Graduate Capstone in Biological Sciences  
2 cr. Graduate.  
Capstone Seminar involving extensive research and evaluation of the scientific literature on a specific topic. Group and individual oral presentations required. Not re-takable for credit.  
**Prerequisites:** Open only to MS students in non-thesis track; cons instr.  
**Last Taught:** Spring 2020, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 899** Advanced Independent Studies  
1-3 cr. Graduate.  
Special studies at the graduate level involving independent reading, library research, and/or field for laboratory study other than thesis research.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Retakable w/chg in topic to 8 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 900** Biology Colloquium  
1 cr. Graduate.  
Talks by invited speakers and faculty members on topics of biological interest.  
**Prerequisites:** grad st.  
**Course Rules:** Retakable to 12 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 925** Graduate Seminar in Biological Sciences  
1-2 cr. Graduate.  
Carries 1 cr when offered once weekly; carries 2 cr when offered twice weekly.  
**Prerequisites:** grad st.  
**Course Rules:** Retakable to 12 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 927** Seminar: Population and Community Ecology  
1-2 cr. Graduate.  
Carries 1 cr when offered once weekly; carries 2 cr when offered twice weekly.  
**Prerequisites:** grad st.  
**Course Rules:** Retakable to 12 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

**BIO SCI 928** Seminar: Aquatic Biology  
1-2 cr. Graduate.  
Carries 1 cr when offered once weekly; carries 2 cr when offered twice weekly.  
**Prerequisites:** grad st.  
**Course Rules:** Retakable w/chg in topic to 9 cr max.  
**Last Taught:** Spring 2009, Spring 2007, Fall 2006, Fall 2005.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
BIO SCI 929 Special Topics in Ecology, Evolution and Behavior
1-2 cr. Graduate.
Current topics in EEB examined in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable to 12 cr max.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 931 Seminar in Systematic Biology and Evolution
1-2 cr. Graduate.
Current topics in systemic biology and evolution explored in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 933 Seminar in Neuroscience
2 cr. Graduate.
Student oral and poster presentations in cellular, molecular, behavioral, and cognitive neuroscience. Students will also write evaluations and summaries of external presentations.
Prerequisites: grad st in Psych, Bio Sci, or Ed Psych or cons instr
Course Rules: Retakable to 8 cr max. Bio Sci 933 & Psych 933 are jointly offered; students may enroll under only one of the curricular areas in any single semester.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 934 Research Advances in Cell and Molecular Biology
1 cr. Graduate.
Presentation and discussion of original research and current topics in cell and molecular biology. Retakable to 10 cr max.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 935 Research Advances in Ecology, Evolution and Behavior
1 cr. Graduate.
Presentation and discussion of original research and current topics in evolution, ecology, and behavior.
Prerequisites: grad st.
Course Rules: Retakable to 10 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 936 Research Advances in Microbiology
1 cr. Graduate.
Presentation and discussion of original research and current topics in microbiology.
Prerequisites: grad st.
Course Rules: Retakable to 10 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BIO SCI 990 Research
1-8 cr. Graduate.
Mentored research in partial fulfillment of thesis requirements.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

Biomedical Engineering (BME)

BME 101 Fundamentals of Biomedical Engineering
3 cr. Undergraduate.
A system approach to physiology, cell physiology and transport, major organ systems, cardiovascular system, biomedical signal processing, biomechanics, biomedical engineering design.
Prerequisites: Math 221(C) or Math 231(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 302 Analysis and Modeling of Dynamic Systems
4 cr. Undergraduate.
Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments.
Prerequisites: MechEng 101(P), ElecEng 234(P), and Physics 210(P).
Course Rules: Jointly offered with & counts as repeat of MechEng 302.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 305 Introduction to Engineering Biomechanics
3 cr. Undergraduate.
Introduction to engineering biomechanics principles applied to the musculoskeletal system and human body for analysis of human movement.
Prerequisites: BioSci 203(P) & BME 302/MechEng302(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 310 Biomedical Signals and Systems
3 cr. Undergraduate.
Introduction to principles of biosignals and system of the human body. Time-domain analysis of Biosignals, Biosensing, Bio-electric signals, Electrocardiogram (ECG), muscle electromyogram (EMG), EEG, etc.
Prerequisites: BME 302(P).
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 320 Engineering of Biomedical Devices I
4 cr. Undergraduate.
Physiological and biomechatronic systems, sensors and actuators, signal processing, hearing aid and implants. Laboratory experiments sessions included.
Prerequisites: junior standing, BME 101(P) and concurrent enrollment or previous completion of BME 302(P); and concurrent enrollment or previous completion of MECHENG 302.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 325 Engineering of Biomedical Devices II
3 cr. Undergraduate.
Feedback and control systems, visual prostheses, heart assist and replacement devices, respiratory aids, active and passive prosthetic limbs.
Prerequisites: jr st, Bio Sci 203(P), BME 320(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
BME 385 Introduction to Biomaterials
3 cr. Undergraduate.
Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies.
Prerequisites: jr st, MatlEng 201(P).
Course Rules: may be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 437 Introduction to Biomedical Imaging
3 cr. Undergraduate/Graduate.
Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.
Prerequisites: senior standing; completion of BME 310(P) or ELECENG 310(P).
Course Rules: BME 437/ELECENG 437 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 437G Introduction to Biomedical Imaging
3 cr. Undergraduate/Graduate.
Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.
Prerequisites: senior standing; completion of BME 310(P) or ELECENG 310(P).
Course Rules: BME 437/ELECENG 437 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 439 Introduction to Biomedical Optics
3 cr. Undergraduate/Graduate.
Prerequisites: senior standing; ELECENG 310(P) or BME 310 (P).
Course Rules: BME 439/ELECENG 439 are jointly offered and count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 439G Introduction to Biomedical Optics
3 cr. Undergraduate/Graduate.
Prerequisites: senior standing; ELECENG 310(P) or BME 310 (P).
Course Rules: BME 439/ELECENG 439 are jointly offered and count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 495 Biomedical Instrumentation Laboratory
3 cr. Undergraduate.
Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects.
Prerequisites: BME 305(C), BME 310(C), BME 325(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 585 Advanced Biomaterials
3 cr. Undergraduate/Graduate.
Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.
Prerequisites: sr st; MatlEng 385(P) or BME 385(P); or cons instr.
Course Rules: Internally sponsored; completion of BME 310(P) or higher; May be retaken to max of 3 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 585G Advanced Biomaterials
3 cr. Undergraduate/Graduate.
Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.
Prerequisites: sr st; MatlEng 385(P) or BME 385(P); or cons instr.
Course Rules: Internally sponsored; completion of BME 310(P) or higher; May be retaken to max of 3 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 595 Capstone Design Project
4 cr. Undergraduate.
Introduction to design process and ethics; Students work in teams to plan, design, and test in a simulated real-world environment; formal oral and written reports.
Prerequisites: sr st; BME 495(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 599 Senior Thesis
1-3 cr. Undergraduate.
Independent research under the direction of a faculty member; submission of a written thesis required. 3 cr total required.
Prerequisites: sr st & cons instr.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 690 Topics in Biomedical Engineering
3 cr. Undergraduate.
Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
Biomedical Sciences (BMS)

BME 690G Topics in Biomedical Engineering:
3 cr. Undergraduate/Graduate.
Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 699 Independent Study
1-3 cr. Undergraduate.
In consultation with a faculty advisor, student will develop the study plan on a topic related to biomedical engineering.
Prerequisites: jr st; cons instr & CEAS Associate Dean.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 720 Machine Perception
3 cr. Graduate.
Fundamentals of computer vision and graphics, fundamentals of human-machine interaction, object sensing and tracking, virtual/augmented reality, automatic human behavior analysis, and biomedical applications.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 733 Sensors and Systems
3 cr. Graduate.
Physical principles and working of sensors, interfacing, and sensor networks.
Prerequisites: grad st; ElecEng 305 or cons. instr.; Jointly offered with & counts as repeat of ElecEng 733 & MechEng 733.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 888 Candidates for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 890 Special Topics:
3 cr. Graduate.
Lectures on special topics in biomedical engineering. Variable content course. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st
Course Rules: May be repeated w/ chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 990 Masters Thesis
1-9 cr. Graduate.
Masters thesis research.
Prerequisites: graduate standing and consent of instructor.
Course Rules: Repeatable to 36 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 998 Doctoral Thesis
1-12 cr. Graduate.
Doctoral thesis is a part of degree requirements.
Prerequisites: grad st; cons instr & grad prog committee.
Course Rules: Re-takeable up to 99 credits.
Current Offerings: https://catalog.uwm.edu/course-search/

BME 999 Advanced Independent Study
1-3 cr. Graduate.
Advanced Independent Study
Prerequisites: grad st & cons instr.
Last Taught: Summer 2020, Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Biomedical Sciences (BMS)

BMS 101 Introduction to Clinical Laboratory Sciences
2 cr. Undergraduate.
Lecture and laboratory instruction to introduce the student to the profession of clinical laboratory sciences with special emphasis in medical technology and cytotechnology.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 201 Sexually Transmitted Diseases and AIDS
3 cr. Undergraduate.
Introductory course examining epidemiology, physiology, and microbiology of sexually transmitted infectious diseases. Information on reproductive physiology, pathophysiology and clinical disease, prevention and current treatment strategies.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 204 Plagues, Pandemics, and Epidemics
3 cr. Undergraduate.
Basic principles and concepts of infectious diseases recognized to be of major worldwide importance in terms of mortality and morbidity.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 205 Introduction to Diagnostic Medicine
3 cr. Undergraduate.
This course will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 232 Introduction to Nutrition
3 cr. Undergraduate.
Fundamentals of human nutrition, functions and requirements of nutrients, nutritional needs throughout the life cycle.
Prerequisites: none.
Course Rules: Not open for cr to students with cr in Hlthsci 238 or BMS 332.
General Education Requirements: NS
Last Taught: Spring 2020, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: sophomore standing or consent of instructor.
Course Rules: BMS/ComSDIs/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 260 Introduction to Complementary and Integrative Health Approaches
3 cr. Undergraduate.
Introduction to the philosophy, evidence and applications of diverse medical and health care systems, practices, and products that are not generally considered part of conventional western biomedicine.
Prerequisites: none.
General Education Requirements: none
Last Taught: Spring 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly-offered with & counts as repeat of Anthro/Chem/Crm Jst 281.
Last Taught: Fall 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 290 Topics in Health Sciences:
1-3 cr. Undergraduate.
Topics of current interest in the field of health sciences.
Prerequisites: specified in sem schedule whenever req’d for a topic.
Course Rules: May be repeated with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 301 Human Pathophysiology: Fundamentals
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis.
Prerequisites: Bio Sci 203(P) or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 302 Human Pathophysiology: Organ Systems I
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle.
Prerequisites: BMS 301(C) or cons instr.
Last Taught: Fall 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 303 Human Pathophysiology: Organ Systems II
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes.
Prerequisites: BMS 301(C) or consent of instructor.
Last Taught: Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 304 Human Pathophysiology: Organ Systems III
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems.
Prerequisites: BMS 301(C) or consent of instructor.
Last Taught: Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 305 Human Pathophysiology: Organ Systems IV
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality.
Prerequisites: BMS 301(C) or consent of instructor.
Last Taught: Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 314X Human Pathophysiology I
3 cr. Undergraduate.
Study of human pathological processes. Emphasis is on interrelationships among organ systems and deviations from homeostasis.
**Prerequisites:** Bio Sci 202(P) & 203(P).
**Course Rules:** Counts as repeat of BMS 301 or BMS 302 or BMS 303.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 315X Human Pathophysiology II
2 cr. Undergraduate.
Study of human pathological processes. Emphasis is on interrelationships among organ systems and deviations from homeostasis.
**Prerequisites:** Bio Sci 202(P) & 203(P).
**Course Rules:** Counts as repeat of BMS 304 or BMS 305.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 332 Clinical Nutrition
2 cr. Undergraduate.
Nutritional needs throughout life; relationships between food habits and health problems; evaluating dietary information for deficiencies and imbalances.
**Prerequisites:** Chem 103(P), Bio Sci 202(P) & 203(P), or BMS 232(P) or HlthSci 232(P).
**Last Taught:** Summer 2020, Spring 2020, UWinterM 2020, Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 335 Echocardiography I
3 cr. Undergraduate.
Introduction to normal cardiovascular anatomy, the normal ultrasound exam and protocol for an echocardiogram.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Fall 2009, Fall 2008, Fall 2007.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 403 Sonographic Physics I
1 cr. Undergraduate.
Study of the basic principles of acoustic transmission, reflection in tissues and transducer design in pulse echo systems.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 404 Sonographic Physics II
1 cr. Undergraduate.
Study of the basic principles of near zone, far zone, beam profiles, beam focusing, transducer arrays.
**Prerequisites:** jr st in BioMed Sci prog) or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 405 Sonographic Physics III
1 cr. Undergraduate.
Study of the basic principles of Doppler, acoustical exposure measurements, QA, bioeffects and the ALARA principle.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 406 Diagnostic Medical Sonography (DMS) Abdomen I
4 cr. Undergraduate.
Study of normal and abnormal sonograms of the peritoneal space, prevertebral vessels, liver, biliary, pancreas and kidneys will be discussed.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 407 Diagnostic Medical Sonography (DMS) Abdomen II
4 cr. Undergraduate.
Study of normal and abnormal sonograms of the spleen, transplant imaging, GI imaging and dedicated pediatric imaging will be discussed.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 408 Vascular Sonography: CV & PV-Arterial
5 cr. Undergraduate.
Study of cerebrovascular anatomy, normal and abnormal, and ultrasound imaging, upper arterial ultrasound exams, anatomy and pathology and lower extremity arterial ultrasound.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 409 Vascular Technology: Advanced
4 cr. Undergraduate.
Study of peripheral vascular direct and indirect arterial and venous, normal and abnormal and abdominal Doppler.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 410 Sonography Clinical Internship I
5 cr. Undergraduate.
Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Fall 2014, Fall 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 411 Sonography Clinical Internship II
5 cr. Undergraduate.
Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2015, Spring 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 420 Clinical Hematology
3 cr. Undergraduate/Graduate.
Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.
**Prerequisites:** jr st or cons instr.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 420G Clinical Hematology
3 cr. Undergraduate/Graduate.
Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.
**Prerequisites:** jr st or cons instr.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BMS 421 Introduction To Hematology Laboratory
1 cr. Undergraduate.
Clinical laboratory experiences in basic hematology techniques and instrumentation to evaluate hematopoietic elements. 3 hr lab.
**Prerequisites:** jr st in BioMed Sci prog or cons instr; BMS 420(C).
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/
BMS 427 Clinical Immunology
3 cr. Undergraduate/Graduate.
Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 427G Clinical Immunology
3 cr. Undergraduate/Graduate.
Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 428 Clinical Immunology Laboratory
1 cr. Undergraduate.
Laboratory experiments in clinical immunology and theories of testing concepts. 3 hr lab.
Prerequisites: jr st in BioMed Sci prog or cons instr; BMS 427(C).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 431 Clinical Chemistry
3 cr. Undergraduate/Graduate.
Correlation of clinical chemistry with the pathophysiology of human disease.
Prerequisites: jr st; Chem 501(P) or cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 431G Clinical Chemistry
3 cr. Undergraduate/Graduate.
Correlation of clinical chemistry with the pathophysiology of human disease.
Prerequisites: jr st; Chem 501(P) or cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 432 Clinical Chemistry Laboratory Theory & Operations
1 cr. Undergraduate.
Theory and application of Clinical Chemistry laboratory principles. Focus on laboratory principles, quality assurance, theory of instrumentation, and laboratory problem solving.
Prerequisites: jr st in BioMed Sci prog or cons instr; Chem 501(P); BMS 431(C).
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 433 Teamwork in the Health Professions
3 cr. Undergraduate.
Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.
Prerequisites: sr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 434 Professional Development in the Health Sciences
3 cr. Undergraduate.
Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.
Prerequisites: sr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 459 Introduction to 3D/4D Ultrasound
3 cr. Undergraduate.
Comparison of normal and pathological anatomy cases utilizing two, three and four dimensional sonography techniques.
Prerequisites: junior standing in BioMedical Science program or consent of instructor.
Last Taught: Fall 2013, Spring 2010, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 462 Seminar in Ultrasound Research
3 cr. Undergraduate.
Student is assigned to a research project and mentor in didactic one-on-one sessions and performing clinical studies.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 472 Radiographic Anatomy and Physiology IV
3 cr. Undergraduate.
Structure and physiology of the human body as they relate to radiography of the remaining systems. The physiochemical process.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 476 Radiographic Exposure IV
3 cr. Undergraduate.
Digital imaging concepts and conversion problems, qualities of contrast, density, detail, and distortion.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 481 Criminalistics
3 cr. Undergraduate.
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Crm Jst 480 (P).
Course Rules: Anthro 481, Chem 481, BMS 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 487 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 501 Introduction to Cytotechnology
1 cr. Undergraduate.
Fieldwork to include lecture and laboratory instruction introducing the
profession of Cytotechnology with emphasis on the role, responsibility,
and ethics of the profession.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 522 Hemostasis
1 cr. Undergraduate.
Correlation of basic theories of the hemostatic system with normal and
abnormal clinical laboratory results. Introduction to basic methodology
employed in differential diagnosis of hemostatic disorders.
Prerequisites: sr st in Biomed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 523 Lectures in Advanced Clinical Hematology
1 cr. Undergraduate.
Lectures dealing with abnormalities of hematopoiesis, and the blood
dyscrasias, and examination of bone marrow and lymphnodes.
Prerequisites: BMS 420(320)(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 524 Advanced Clinical Hematology Practicum
3 cr. Undergraduate.
Practical experience in the clinical laboratory dealing with both normal
and abnormal hematology and body fluids.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 529 Introduction to Immunohematology
3 cr. Undergraduate.
An introduction to the fundamentals of immunohematology and clinical
blood banking.
Prerequisites: BMS 427(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 530 Immunohematology and Blood Banking Laboratory
1 cr. Undergraduate.
Fundamental practical instruction in basic blood banking techniques.
Prerequisites: BMS 529(C) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 531 Advanced Lectures in the Clinical Laboratory Sciences
1 cr. Undergraduate.
Clinical applications and relationships within the various disciplines of
clinical laboratory sciences including discussion of current topics of
interest in diagnostic medicine.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 532 Advanced Clinical Immunohematology and Immunology
3 cr. Undergraduate.
Advanced comprehensive study of microorganisms that influence human
health and disease. Emphasis on identification/diagnosis and microbial
attributes and mechanisms that facilitate infectious disease.
Prerequisites: jr st & Bio Sci 383(303)(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 534 Medical Microbiology
3 cr. Undergraduate/Graduate.
Advanced comprehensive study of microorganisms that influence human
health and disease. Emphasis on identification/diagnosis and microbial
attributes and mechanisms that facilitate infectious disease.
Prerequisites: jr st & Bio Sci 383(303)(P); or grad st; or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 534G Medical Microbiology
3 cr. Undergraduate/Graduate.
Advanced comprehensive study of microorganisms that influence human
health and disease. Emphasis on identification/diagnosis and microbial
attributes and mechanisms that facilitate infectious disease.
Prerequisites: jr st & Bio Sci 383(303)(P); or grad st; or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 535 Medical Microbiology Laboratory
2 cr. Undergraduate/Graduate.
Formal systematic laboratory study of microorganisms important in
human health and disease. Emphasis on current methods of detection,
identification and treatment. 4 hr lab.
Prerequisites: jr st & Bio Sci 383(303)(P); or cons instr; BMS 534(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 535G Medical Microbiology Laboratory
2 cr. Undergraduate/Graduate.
Formal systematic laboratory study of microorganisms important in
human health and disease. Emphasis on current methods of detection,
identification and treatment. 4 hr lab.
Prerequisites: jr st & Bio Sci 383(303)(P); or cons instr; BMS 534(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 536 Applied Clinical Microbiology
2 cr. Undergraduate.
Lectures and laboratory dealing with the systematic study of bacteria of medical importance to humans.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 537 Medical Parasitology and Mycology
2 cr. Undergraduate/Graduate.
Lectures and laboratory dealing with the medically significant parasitic and mycotic agents of human disease.
Prerequisites: sr st in BioMed Sci prog; or grad st; or cons instr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 537G Medical Parasitology and Mycology
2 cr. Undergraduate/Graduate.
Lectures and laboratory dealing with the medically significant parasitic and mycotic agents of human disease.
Prerequisites: sr st in BioMed Sci prog; or grad st; or cons instr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 538 Advanced Clinical Microbiology Practicum
3 cr. Undergraduate.
Clinical instruction in techniques utilized for the diagnosis of infectious disease, including special culture techniques.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 539 Public Health Microbiology
2 cr. Undergraduate/Graduate.
The role of microbiological analysis in public health and the current techniques for detecting, identifying, and enumerating pathogenic microorganisms.
Prerequisites: jr st & Bio Sci 383(303)(P), or grad st; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 539G Public Health Microbiology Lab
2 cr. Undergraduate/Graduate.
Current laboratory techniques for detecting, identifying, and enumerating pathogenic microorganisms.
Prerequisites: jr st, or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 540G Public Health Microbiology Lab
2 cr. Undergraduate/Graduate.
Current laboratory techniques for detecting, identifying, and enumerating pathogenic microorganisms.
Prerequisites: jr st, or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 541 Urinalysis
1 cr. Undergraduate.
Lecture and laboratory experience in clinical analysis of urine.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 542 Applied Clinical Chemistry
2 cr. Undergraduate.
Systematic instruction in the laboratory determination of substances of principal interest to the diagnosis of human disease.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 544 Advanced Clinical Chemistry Practicum
3 cr. Undergraduate.
Experience in a hospital laboratory dealing with routine and specialized biochemical procedures and all phases of instrumentation currently used in this field.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 545 Human Histology
3 cr. Undergraduate/Graduate.
A detailed study of the structure and function of human tissues.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 545G Human Histology
3 cr. Undergraduate/Graduate.
A detailed study of the structure and function of human tissues.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 547 Clinical Laboratory Diagnosis
5 cr. Undergraduate.
Lectures and laboratory covering special topics in the use of laboratory testing in clinical diagnosis of disease.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 548 Clinical Laboratory Practice
5 cr. Undergraduate.
Experience in various laboratory techniques.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 549 Professional Development in Clinical Laboratory Sciences
3 cr. Undergraduate.
Discussion and participation in professional development activities.
Topics include: laboratory management, laboratory information systems,
professional conduct, ethics, certification, job placement, and educational
methodologies.
Prerequisites: senior standing in BioMedical Science program or consent
of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 552 Advanced Nutrition
2 cr. Undergraduate/Graduate.
Nutrient utilization and human metabolism, nutritional influences in
anthropology, epidemiology and international development issues.
Prerequisites: jr st, BMS 232(P) or Bio Sci 501(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 552G Advanced Nutrition
2 cr. Undergraduate/Graduate.
Nutrient utilization and human metabolism, nutritional influences in
anthropology, epidemiology and international development issues.
Prerequisites: jr st, BMS 232(P) or Bio Sci 501(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 555 Toxicology and Therapeutic Drug Monitoring
1 cr. Undergraduate/Graduate.
Survey of the pharmacology and analytical methods for identification and
quantitation of therapeutic and toxic substances.
Prerequisites: jr st, & Chem 341(P) or 345(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 555G Toxicology and Therapeutic Drug Monitoring
1 cr. Undergraduate/Graduate.
Survey of the pharmacology and analytical methods for identification and
quantitation of therapeutic and toxic substances.
Prerequisites: jr st, & Chem 341(P) or 345(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 560 Molecular and Genetic Diagnostics
2 cr. Undergraduate/Graduate.
Introduction to principles and applications of DNA technology in the
clinical laboratory.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 560G Molecular and Genetic Diagnostics
2 cr. Undergraduate/Graduate.
Introduction to principles and applications of DNA technology in the
clinical laboratory.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 561 Molecular Diagnostics Laboratory
1 cr. Undergraduate/Graduate.
Clinical laboratory experiences in molecular diagnostic techniques and
instrumentation.
Prerequisites: jr st & BMS 560(C); or grad st & BMS 705(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 561G Molecular Diagnostics Laboratory
1 cr. Undergraduate/Graduate.
Clinical laboratory experiences in molecular diagnostic techniques and
instrumentation.
Prerequisites: jr st & BMS 560(C); or grad st & BMS 705(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 565C Toxicology and Therapeutic Drug Monitoring
1 cr. Undergraduate/Graduate.
Survey of the pharmacology and analytical methods for identification and
quantitation of therapeutic and toxic substances.
Prerequisites: jr st, & Chem 341(P) or 345(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 575 Cytology of the Female Genital Tract - I
4 cr. Undergraduate.
Fieldwork to include lectures discussing the normal and abnormal
cytology of the female genital tract.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 576 Cytology of the Female Genital Tract - II
4 cr. Undergraduate.
Fieldwork to include laboratory experience dealing with the study of the
normal and abnormal cytology of the female genital tract.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 577 Cytology of the Respiratory Tract
3 cr. Undergraduate.
Lectures and laboratory experience in the study of the normal and
abnormal cytology of the respiratory tract.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 578 Cytology of the Gastrointestinal and the Genito-Urinary Tract
2 cr. Undergraduate.
Fieldwork to include lecture and laboratory experience dealing with the
normal and abnormal cytology of the G.I. and G.U. tracts.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 579 Cytology of Effusions and the Central Nervous System
3 cr. Undergraduate.
Fieldwork to include lecture and laboratory experiences in the study of
various body fluids in health and disease.
Prerequisites: sr st in BioMed Sci & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 580 Aspiration Cytology
4 cr. Undergraduate.
Fieldwork to include lecture and laboratory experience dealing with
aspiration cytology.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 581 Special Procedures in Cytology
1 cr. Undergraduate.
Fieldwork to include lecture and laboratory experiences dealing with special procedures used in cytological diagnosis.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 582 Cytology of the Breast
1 cr. Undergraduate.
Fieldwork to include lecture and laboratory experiences dealing with the normal and abnormal cytology of the breast.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 583 Cytology Preparation Techniques
1 cr. Undergraduate.
Fieldwork to include laboratory preparation of gynecologic and nongynecologic cytology specimens using several different instrument methodologies.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 585 Internship in Forensic Toxicology
1-3 cr. Undergraduate.
Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 585, Chem 585, BMS 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 586 Cytology Lab Operations and Quality Control
1 cr. Undergraduate.
Basic administrative functions and quality control procedures utilized in the cytology laboratory.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 587 Research Methods in Cytology
1 cr. Undergraduate.
Research methods in cytology through journal library, literature reviews, case studies, and library research.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 588 Diagnostic Microscopy in Cytology
5 cr. Undergraduate.
Fieldwork in a functioning cytotechnology laboratory.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 589 Internship in Death Investigation
1-3 cr. Undergraduate.
Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Crm Jst 480(P); BMS 620(R); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 589, Chem 589, BMS 589 & Crm Jst 589 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2017, Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 590 Topics in Clinical Laboratory Sciences:
1-5 cr. Undergraduate/Graduate.
Topics of current interest in the field of clinical laboratory sciences. The major theme for each semester offering will be posted.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: May be retaken with change in topic to max of 9 cr for grad students.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 594 Internship in Forensic Science
1-3 cr. Undergraduate.
On-site shadowing of evidence analyst at State Crime Laboratory.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 599 Independent Study
1-3 cr. Undergraduate.
Individualized experience which enables the student to study current topics of interest to the clinical laboratory scientist. Level of credit assigned based on time required for completion.
Prerequisites: cons instr & prog dir.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 600 Contrast Diagnostic Imaging
3 cr. Undergraduate/Graduate.
Use of contrast media in medical imaging diagnostic procedures.
Prerequisites: junior standing in BioMedical Science program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Introductory Diagnostic Imaging course.
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 601 Molecular Imaging for Diagnostic Imaging
3 cr. Undergraduate/Graduate.
Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes.
Prerequisites: junior standing in BioMedical Science program; ARRT, ARDMS, or CCI Imaging Certification or completion of an introductory Diagnostic Imaging course.
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 615G Cellular and Molecular Toxicology
3 cr. Undergraduate/Graduate.
Lectures on cellular and molecular mechanisms of toxicant interactions with critical target organelles and molecules and subsequent downstream cellular responses.
Prerequisites: jr st, Chem 501(P), or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 610 Pharmacology
3 cr. Undergraduate/Graduate.
Lectures on pharmacokinetics, mechanisms of action, and physiological effects of toxic and therapeutic substances.
Prerequisites: jr st, Chem 501(P) or cons instr; grad st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 701 Human Pathophysiology I
3 cr. Graduate.
An advanced course in basic pathological mechanisms underlying production of human disease and effects on selected organ systems.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 702 Human Pathophysiology II
3 cr. Graduate.
A continuation of 701 dealing with pathogenesis of the major diseases of human organ systems.
Prerequisites: grad st, BMS 701(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 751 Immunopathology
3 cr. Graduate.
Examination of mechanisms by which abnormal, unwanted, or absent immune responses result in disease, including discussion of clinical presentation, diagnostic testing, and therapeutic intervention.
Prerequisites: grad st; BMS 750(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 756 Current Concepts in Cancer
3 cr. Graduate.
An overview of various forms of human cancer. Emphasis on cell markers and cytomorphology, etiology and kinetics.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 1999.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 750 Infection and Immunity
3 cr. Graduate.
Immunobiology of the response to infectious disease agents of humans, with resulting clinical outcomes; mechanisms of immune evasion in establishing infection and causing disease.
Prerequisites: grad st; Lec courses in immunology and microbiology or cons instr
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 705 Molecular Pathology
3 cr. Graduate.
Principles, methods, and applications of nucleic acid-based technologies in pathology and laboratory medicine.
Prerequisites: grad st or cons instr.
Course Rules: Counts as repeat of BMS 590 with similar topic.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 710 Seminar in Biomedical Sciences
1 cr. Graduate.
Presentation of topics of current interest to the biomedical scientist.
Prerequisites: grad st or cons instr.
Course Rules: May be repeated to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 717 Laboratory Technology-Theory and Practice
2 cr. Graduate.
Fundamental laboratory bench techniques common to the biological sciences to prepare students for independent research.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BMS 718 Experimental Design and Research in Biomedical Sciences
1 cr. Graduate.
Fundamentals of experimental design for beginning graduate students in Biomedical Sciences.
Prerequisites: grad st; biostatistics or undergraduate statistics course or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/
BMS 766 Advanced Cardiovascular Hemodynamics  
3 cr. Graduate.  
Study of fundamental principles of fluid mechanics as applicable to physiologic and biological systems. Topics include Poiseuille flow, circulatory flow resistance.  
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 767 Comparative Analysis of Diagnostic Imaging  
3 cr. Graduate.  
Study of imaging principles evoked in utilizing multiple imaging modalities (DMS, CT, MRI and radiographic imaging) of both the normal and pathology findings.  
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 768 Diagnostic Imaging of Acquired Heart Disease  
3 cr. Graduate.  
In-depth study of how acquired heart disease is imaged in the adult patient.  
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 769 Diagnostic Imaging for Management of Cardiovascular Disease  
3 cr. Graduate.  
In-depth study of imaging used to monitor surgical and medical management of patients with cardiovascular disease.  
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 775 Mechanisms of Infectious Disease  
2 cr. Graduate.  
Molecular and cellular means by which microorganisms facilitate infection, withstand or evade immune response, induce damage to host, and ensure transmission to human populations.  
Prerequisites: grad st; lc & la course in medical microbiology  
Course Rules: BMS 775 & PH 775 are jointly offered; they count as repeats of one another.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 780 Emerging Infectious Diseases  
3 cr. Graduate.  
Detailed studies of those infectious diseases with both an emerging nature and a high impact on public health.  
Prerequisites: grad st; background in microbiology, BMS 534 or BMS 539 or BioSci 383 (R)  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 782 Advanced Immunology  
3 cr. Graduate.  
Cellular basis of the immune response with emphasis on immunoregulation and clinical disease manifestations resulting from altered cellular immune function.  
Prerequisites: grad st; course in immunology, or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 799 Research in Biomedical Sciences  
1-8 cr. Graduate.  
Prerequisites: grad st; cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 890 Capstone Project  
2 cr. Graduate.  
Capstone for the Biomedical Sciences MS non-thesis track.  
Prerequisites: graduate standing and consent of instructor.  
Course Rules: May be retaken one time; no more than 2 credits in total allowed for BMS 890.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 901 Seminar on Philosophical Approaches to Science  
3 cr. Graduate.  
The nature and function of sciences, the logic of the scientific method as it relates to health, and implications of research and practices in health care.  
Prerequisites: grad st.  
Course Rules: BMS 901 & LibrlSt 901 are jointly offered; they count as repeats of one another.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 909 Guided Teaching Experience in Health Sciences  
3 cr. Graduate.  
This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.  
Prerequisites: grad st; Occ Thpy 900(P); cons instr  
Course Rules: Jointly offered w/ and counts as a repeat of HCA 909.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 910 Advanced Seminar in Health Sciences  
1 cr. Graduate.  
Faculty, students, and guests present research topics in the Health Sciences.  
Prerequisites: grad st  
Course Rules: Retakable to 4 cr max.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

BMS 990 Research and Dissertation  
1-6 cr. Graduate.  
Preparation of a dissertation under the direction of the student’s primary and secondary advisors.  
Prerequisites: grad st; cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/
Business Administration (BUS ADM)

BUS ADM 100 Introduction to Business
3 cr. Undergraduate.
Introduction to the nature and functions of business, the culture of the business world and business education, and the skills to be successful in both.
Prerequisites: not open for cr or regis to Business jr, pre-Business sr, or Business sr.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 199 Entrepreneurship Independent Study
1-3 cr. Undergraduate.
Independent work related to entrepreneurship.
Prerequisites: cons of Lubar School entrepreneurship instr.
Course Rules: May be retaken once for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 200 Business and Society
3 cr. Undergraduate.
Integrated understanding of sources of competitive/strategic advantage derived from corporate citizenship in the public policy, social, economics, and ecological environments.
Prerequisites: soph st.
Course Rules: Counts as repeat of Bus Adm 295 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 201 Introduction to Financial Accounting
4 cr. Undergraduate.
Prerequisites: 12 completed credits; MATH 105(P) or MATH 108(P) or equiv.
Course Rules: Counts as repeat of BUS ADM 207.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 202 Managerial Accounting
3 cr. Undergraduate.
The analysis, interpretation and use of accounting data for effective managerial planning, control, and decision making.
Prerequisites: soph st; BUS ADM 201(P).
Course Rules: Counts as a repeat of BUS ADM 302.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 207 Business Scholars: Introduction to Financial Accounting
4 cr. Undergraduate.
Introduces financial accounting concepts and investigates current financial reporting issues. Develops ability to prepare financial statements and to understand and analyze annual reports of real-world companies.
Prerequisites: 12 completed credits; MATH 105(P), MATH 108(P), or equivalent; admission to Business Scholars Program or department consent.
Course Rules: Not open for cr to those w/ cr in BUS ADM 201.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 210 Statistical Modeling in Business Analytics
4 cr. Undergraduate.
Introduces statistical models and methods used in business analytics. Topics include descriptive statistics, probability, hypothesis testing, simple linear regression, multiple regression, binary logistic regression, and regression trees.
Prerequisites: Sophomore standing; MATH 208(P) or MATH 211(P) or MATH 231(P).
Course Rules: Counts as repeat of BUS ADM 211.
General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 211 Business Scholars: Statistical Modeling in Business Analytics
4 cr. Undergraduate.
Introduces statistical models and methods used in business analytics. Topics include descriptive statistics, probability, hypothesis testing, linear and multiple regression, binary logistic regression, and regression trees. Applications to finance and marketing.
Prerequisites: Sophomore standing; admission to Business Scholars Program; MATH 208(P), MATH 211(P) or MATH 231(P).
Course Rules: Not open for credit to students with credit in BUS ADM 210.
General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 230 Introduction to Information Technology Management
4 cr. Undergraduate.
Information technology management concepts; their role in business; management of formal and informal information systems development; business problem solving and visualization using appropriate business techniques and tools.
Prerequisites: sophomore standing.
Course Rules: Counts as repeat of BUS ADM 231.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 231 Business Scholars: Introduction to Information Technology Management
4 cr. Undergraduate.
Fundamental concepts and application of information technology to support the conduct and management of business activities. Lab tools include common applications software for data gathering, analysis, presentation, and visualization.
Prerequisites: admis to Business Scholars Program or consent of department.
Course Rules: Counts as repeat of BUS ADM 230.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 292 Introduction to Entrepreneurship and Small Business Formation
3 cr. Undergraduate.
Explore elements necessary for entrepreneurship to flourish. Larger perspectives of the character and mental set of entrepreneurs and effect on the success of the business.
Prerequisites: soph st.
Course Rules: Counts as repeat of Bus Adm 295 with similar topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 293 Business Ethics & Social Responsibility
3 cr. Undergraduate.
Ethical dimensions of economy, management decision-making, and corporate social responsibility. Ethical framework for assessment of business practices. Includes case discussions.
Prerequisites: sophomore standing.
Course Rules: Previously BUS ADM 393. Counts as repeat of BUS ADM 295 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 295 Management Seminar
1-3 cr. Undergraduate.
Analysis of current topics and issues related to specific management areas of business. Specific topics and additional prerequisites may appear in the Schedule of Classes whenever the course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 298 Study Abroad: Business Topics:
3 cr. Undergraduate.
Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.
Prerequisites: soph st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 300 Career and Professional Development:
1 cr. Undergraduate.
Skills necessary to enter the job market. Includes professional correspondence, resume writing, interviewing and networking skills, and professional etiquette.
Prerequisites: sophomore standing and concurrent enrollment in one of the following: BUS ADM 301(C), BUS ADM 330(C), BUS ADM 335(C), BUS ADM 350(C), BUS ADM 360(C), or BUS ADM 370(C).
Course Rules: May not be retaken for credit. Not open for credit for those with credit in BUS ADM 303.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 301 Intermediate Accounting
4 cr. Undergraduate.
Understanding the economic impact of business transactions and serving the information needs of statement users. Use of accounting principles to guide financial reporting and disclosure.
Prerequisites: sophomore standing; MATH 208(P) or MATH 211(P); BUS ADM 230(P) or BUS ADM 231(P); a grade of 'B' or better in BUS ADM 201(P) or BUS ADM 207(P) within three years of enrollment; BUS ADM 202(P); cumulative GPA of 3.00 or better.
Course Rules: Sophomore standing and BUS ADM 301(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 303 Career Planning for Accounting
1 cr. Undergraduate.
Skills necessary for success in the accounting profession. Includes professional correspondence, resume writing, interviewing and networking skills, professional etiquette and career planning and advancement.
Prerequisites: Sophomore standing and BUS ADM 301(C).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 305 Personal Investing and Financial Planning
3 cr. Undergraduate.
Introduction to investing for individuals with emphasis on the personal planning process, issues, and strategies.
Prerequisites: soph st.
Course Rules: Not open for credit to Accounting majors who are concurrently enrolled or have completed Bus Adm 301.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 330 Organizations
3 cr. Undergraduate.
An introduction to human behavior in organizations, organizational structures and processes, and interactions between organizations and their environments. Students will examine various theories and research findings on selected topics.
Prerequisites: jr st.
Course Rules: Counts as repeat of Bus Adm 331.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 331 Business Scholars: Organizations
3 cr. Undergraduate.
Behavioral theories and management principles for understanding behavior in organizations; individual and organizational processes, and their interaction. Includes current and classic research, and application.
Prerequisites: jr st; admis to Business Scholars Prog.
Course Rules: Not open for cr to those w/cr in Bus Adm 330.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 335 Visual System Development
3 cr. Undergraduate.
Visual-oriented techniques for business applications development; visual-oriented design and development methodologies; use of event driven and graphical controls; implementation with an appropriate language.
Prerequisites: soph st; a grade of ‘C’ or better in Bus Adm 230(P) or 231(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 336 Enterprise Systems and Data Analytics
3 cr. Undergraduate.
Introduction to business processes and ERP utilizing ERP to run business simulation game and analysis of results utilizing business analytics.
Prerequisites: soph st; a grade of ‘C’ or better in Bus Adm 230(P) or 231(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 350 Principles of Finance
3 cr. Undergraduate.
Fundamentals of financial management, asset/liability valuations, risk and return, investment analysis, sources and uses of funds, cost of capital, and cash management.
Prerequisites: soph st; Econ 103(P) & 104(P); Bus Adm 201(P) or 207(P); Bus Adm 210(P) or 211(P).
Course Rules: Counts as repeat of Bus Adm 351. Not open for cr to those w/cr in Bus Adm 450.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 351 Business Scholars: Principles of Finance
3 cr. Undergraduate.
Fundamentals of financial management, analysis of financial statements, risk and return, debt/equity valuations, cost of capital, capital budgeting, capital structure, and dividend policies.
Prerequisites: soph st; admis to Business Scholars Prog; Econ 103(P) & 104(P); Bus Adm 207(P) & 211(C).
Course Rules: Not open for cr to those w/cr in Bus Adm 350.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 360 Principles of Marketing
3 cr. Undergraduate.
The marketing system is analyzed as the process in our socioeconomic system for anticipating and satisfying consumer needs, adjusting to demand, and selling and procuring products and services. Competition, pricing, product line, distribution systems, promotion, and planning are discussed.
Prerequisites: jr st; Econ 104(P).
Course Rules: Counts as repeat of Bus Adm 361.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 361 Business Scholars: Principles of Marketing
3 cr. Undergraduate.
Marketing theory and tactics in context of current external marketing environment. Discussion of current marketing issues, failures, and successes along with industry and company strategic differences. Analytical tools used for team project.
Prerequisites: jr st; admis to Business Scholars Prog; Econ 104(P).
Course Rules: Not open for cr to those w/cr in Bus Adm 360.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 370 Introduction to Supply Chain Management
3 cr. Undergraduate.
Broad survey of the foundational concepts and principles of managing supply chain operations. Topic areas include customer management, purchasing, logistics, project management, demand planning.
Prerequisites: soph st; Bus Adm 210(C) or 211(C).
Course Rules: Counts as repeat of Bus Adm 371.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 371 Business Scholars: Introduction to Supply Chain Management
3 cr. Undergraduate.
Broad survey of foundational concepts and principles of managing supply chain operations. Topics include customer management, purchasing, logistics, project management, demand planning, quantitative and computer applications.
Prerequisites: soph st; admis to Business Scholars Prog; Bus Adm 211(P).
Course Rules: Not open for cr to those w/cr in Bus Adm 370.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 380 Introduction to Real Estate Markets
3 cr. Undergraduate.
The course focuses on real estate investment decisions as they are made within the framework of institutional controls consisting of social, political, and economic forces.
Prerequisites: jr st; Econ 104(P).
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 389 Real Estate Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the real estate area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st; Bus Adm 481(P); writ cons instr.
Course Rules: Counts as repeat of Bus Adm 390. Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 391 Business Law I
3 cr. Undergraduate.
The court system, tort law, agency and employment law; contract law and sales transactions; professional liability; and legal ramifications of selecting appropriate business organization.
Prerequisites: jr st.
Course Rules: Counts as repeat of Bus Adm 390.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 394 Human Resources Management Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the human resources management area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to HRM major; completion of at least one 400-level course in HRM major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 395 Special Topics in Business:
1-3 cr. Undergraduate.
Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr. Counts as repeat of Bus Adm 295 or 495 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 396 Finance Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the finance area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to finance major; completion of at least one 400- or 500-level course in finance major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 397 Marketing Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the marketing area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to marketing major; completion of at least one 400-level course in marketing major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 398 Supply Chain & Operations Management Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the SCOM area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to SCOM major; completion of at least one 400- or 500-level course in SCOM major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 400 Accounting Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/public accounting environment.
Prerequisites: senior standing and admission to accounting major; BUS ADM 303(P), BUS ADM 406(P), and BUS ADM 409(P).
Course Rules: Considered full time for FA purposes. Credit/no credit only. Prior approval of intern director is required.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 402 Advanced Financial Accounting
3 cr. Undergraduate.
Study of advanced financial accounting issues such as interim reporting, leases, specialized revenue recognition, tax allocation, dilutive securities, derivatives, and financial troubled entities.
Prerequisites: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 403 Consolidations and Governmental Accounting
3 cr. Undergraduate.
Understand and apply concepts related to accounting for consolidations and for governmental and not-for-profit accounting.
Prerequisites: jr st & admis to Bus Adm major; a grade of B or better in Bus Adm 301(P); Bus Adm 402(C).
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 404 Cost Management
3 cr. Undergraduate.
Design, implementation, and use of optimal accounting systems for product and service costing, internal and external financial reporting, managerial decision support, and organizational control.
Prerequisites: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 405 Income Tax Accounting I
3 cr. Undergraduate.
Introduction to tax issues inherent in business and financial transactions, with an emphasis on the federal individual and corporate income tax.
Prerequisites: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(C).
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 406 Income Tax Accounting II
3 cr. Undergraduate/Graduate.
Application of framework developed in Income Tax Accounting I (Bus Adm 405) to more thoroughly analyze the taxation of business entities.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 405(P).
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 406G Income Tax Accounting II
3 cr. Undergraduate/Graduate.
Application of framework developed in Income Tax Accounting I (Bus Adm 405) to more thoroughly analyze the taxation of business entities.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 405(P).
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 408 Accounting Information Systems
3 cr. Undergraduate/Graduate.
Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages.
**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(P).
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 408G Accounting Information Systems
3 cr. Undergraduate/Graduate.
Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages.
**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(P).
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 409 Auditing: Procedures and Applications
3 cr. Undergraduate.
An introduction to the audit process from an internal and external perspective with an emphasis on practical applications and technological innovations.
**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); Bus Adm 402(P) & 408(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 410 Accountants' Ethical Responsibilities
1 cr. Undergraduate.
Study of ethical and societal responsibilities and constraints that define and affect the practice of accountancy. Includes selected readings, guest speakers, and cases.
**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); Bus Adm 409(C).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 424 US Institutions Shaping Accounting & Auditing Standards
3 cr. Undergraduate.
U.S. accounting and auditing practices and the institutions that shape these practices, includes a visit to Washington D.C. regulatory agencies.
**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); cons of instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 432 Object-Oriented Systems Development
3 cr. Undergraduate.
Object-oriented concepts and use in management applications; object-oriented design and development methodologies; managing programs and structures; implementation with an appropriate language.
**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 335(P).
**Last Taught:** Spring 2020, Fall 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 433 Information Technology Project Management
3 cr. Undergraduate.
In-depth exposure to key tools, techniques, practices, and knowledge areas of IT project management. Microsoft 2003 used to support. Number of team-based projects involved.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 436(P).
**Last Taught:** Spring 2014, Spring 2013, Fall 2011, Fall 2010.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 434 Data Base Management Systems
3 cr. Undergraduate.
Database concepts; data modeling; SQL; fourth generation languages; data resource management; client/server databases; implementation using commercial DBMS products.
**Prerequisites:** jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 436 Systems Analysis and Design
3 cr. Undergraduate.
Systems development methodologies; systems modeling, requirements specification, structured design, and systems implementation; use of automated development tools.
**Prerequisites:** jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

BUS ADM 438 Information Technology Management Topics:
3 cr. Undergraduate.
Contemporary topics for IT practitioners. Typical offerings include distributed information systems, management of IT, decision support systems, end-user computing, multimedia systems. Additional prerequisites announced in Schedule of Classes each time course is offered.
**Prerequisites:** jr st & admis to Bus Adm major; Grade 'C' or better in Bus Adm 335(P); or cons instr.
**Course Rules:** May be retaken w/chg in topic to max of 6 cr.
**Last Taught:** Fall 2018, Spring 2009, Spring 2008, Fall 2007.
**Current Offerings:** https://catalog.uwm.edu/course-search/
BUS ADM 439 Information Technology Management Professional Internship
3 cr. Undergraduate.
A defined FT one semester work period, potentially leading to FT employment in a corporate/governmental/management consulting environment.
Prerequisites: junior standing and admission to ITM major; BUS ADM 300(P) or BUS ADM 303(P); completion of one 400- or 500-level ITM course; and written consent of instructor.
Course Rules: Considered full time for FA purposes. Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 440 Compensation Management
3 cr. Undergraduate.
Ways organizations use wage and salary management to attract, retain, and motivate employees. Review of traditional and innovative compensation methods for administering pay.
Prerequisites: jr st, admis to Bus Adm major, Bus Adm 444(P) or grad st & Bus Adm 738(P).
Course Rules: Counts as repeat of Bus Adm 443 with similar title.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 441 Diversity in Organizations
3 cr. Undergraduate/Graduate.
Conceptual and experiential understanding of cultural values and practices among diverse groups in organizations. Addresses institutional and personal discrimination, stereotyping and prejudice.
Prerequisites: junior standing and admis to Bus Adm major; or non-Business major with 2.5 GPA; or consent of instructor.
Course Rules: Counts as repeat of BUS ADM 495 with similar topic and BUS ADM 443 with similar title.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 441G Diversity in Organizations
3 cr. Undergraduate/Graduate.
Conceptual and experiential understanding of cultural values and practices among diverse groups in organizations. Addresses institutional and personal discrimination, stereotyping and prejudice.
Prerequisites: junior standing and admis to Bus Adm major; or non-Business major with 2.5 GPA; or consent of instructor.
Course Rules: Counts as repeat of BUS ADM 495 with similar topic and BUS ADM 443 with similar title.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 442 Industrial Psychology
3 cr. Undergraduate/Graduate.
Application of psychological principles to industrial problems.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 442G Industrial Psychology
3 cr. Undergraduate/Graduate.
Application of psychological principles to industrial problems.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 443 Special Topics in Human Resources Management:
3 cr. Undergraduate/Graduate.
Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 443G Special Topics in Human Resources Management:
3 cr. Undergraduate/Graduate.
Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 444 Human Resources Management
3 cr. Undergraduate.
An examination of the personnel function of the enterprise as an activity concerning all managers within the firm. General topics include the personnel function, maximizing human potential, supervision, and wage and salary administration.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 445 Training & Development in Organizations
3 cr. Undergraduate/Graduate.
Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.
Prerequisites: jr st, admis to Bus Adm major, & Bus Adm 444(P); or grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar title. Not open to students w/cr in Commun 327(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 445G Training & Development in Organizations
3 cr. Undergraduate/Graduate.
Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.
Prerequisites: jr st, admis to Bus Adm major; & Bus Adm 444(P); or grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar title. Not open to students w/cr in Commun 327(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 447 Entrepreneurship
3 cr. Undergraduate.
Study of creation, growth/or acquisition of business through entrepreneurial efforts. Nature of entrepreneurship process and organization of growth oriented companies. Topics include methods of financing, venture capital, leveraged buy-outs and acquisitions.
Prerequisites: jr st, Bus Adm 350(P) or writ cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 448 Staffing Human Resources
3 cr. Undergraduate.
Planning, recruiting, selection, and hiring functions in organizations within the context of its legal environment. Includes application of spreadsheet and data analysis.
Prerequisites: jr st, admis to Bus Adm major; & Bus Adm 444(P); or grad st & Bus Adm 738(P).
Course Rules: Counts as repeat of Bus Adm 443 with similar title.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 449 Human Resources Management Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.
Prerequisites: Senior standing and admission to HRM major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400-level course in the HRM major; and written consent of instructor.
Course Rules: Considered full time for FA purposes. Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 450 Intermediate Finance
3 cr. Undergraduate.
Theories of valuation, corporate governance, and capital structure. Other topics explored such as dividend policy, financing methods, corporate and financial restructurings, and global financial management.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 451 Investment Finance
3 cr. Undergraduate.
A study of the financial system and institutions and the primary forces, which affect this system within which firms operate. Emphasis is on the instruments and interactions in the money and capital markets, and on analysis of firms for purposes and valuation of bonds and stocks for portfolio management.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 450(C).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 452 Applied Portfolio Management
3 cr. Undergraduate.
Study institutional setting, legal framework, portfolio strategies, and innovations in investment markets. Explore securities valuation, risk management, behavioral study, and prospects of market developments.
Prerequisites: jr st; admis to Bus Adm major; Bus Adm 451(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 453 Corporate Finance Seminar
3 cr. Undergraduate.
Integration of financial operations with other operations of a business unit, including working capital management, financial planning and financial control.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 450(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 454 Analysis of Options and Futures
3 cr. Undergraduate.
Valuate interest rate, equity, and stock index futures and options. Develop strategies using these instruments in hedging interest rate and equity portfolio risk.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 451(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 455 Financial Institutions
3 cr. Undergraduate.
Financial intermediation by banks and other financial institutions. Financial instruments and the markets where they trade. Term structure of interest rates and monetary issues.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 456 International Financial Management
3 cr. Undergraduate.
Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 457 Financial Modeling
3 cr. Undergraduate.
Development and application of computer-based financial models. Models from corporate finance and investments use Microsoft Excel and Visual Basic for Applications (VBA).
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 450(P) & 451(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 458 Venture Finance
3 cr. Undergraduate.
Corporate financial perspectives. Key institutional features of venture finance. Assess financial need, value of and claims on new ventures. Analyze contracts between entrepreneurs and outside vendors.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 450(P).
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 459 Finance Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.
**Prerequisites:** Senior standing and admission to finance major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400- or 500-level course in finance major; and written consent of instructor.
**Course Rules:** Considered full time for FA purposes. Credit/no credit only.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 460 Retail Management
3 cr. Undergraduate.
Principles of retail management including merchandising, product design and development, sales, store management, distribution and inventory management, public relations and advertising.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
**Course Rules:** Counts as repeat of Bus Adm 467 with similar topic.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 461 Consumer Behavior
3 cr. Undergraduate.
Interdisciplinary approach to study of buying behavior of consumers, with emphasis on implications for marketing of theory and findings from the behavioral sciences.
**Prerequisites:** junior standing & admis to Bus Adm major; BUS ADM 360(C) or BUS ADM 361(C).
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 462 Marketing Research
3 cr. Undergraduate.
Research process as an aid to decision-making in marketing management. Attention is given to planning research and the gathering, analysis, and interpretation of information.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 210(P) or 211(P); & 360(P) or 361(P).
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 463 Marketing Management
3 cr. Undergraduate.
Development and implementation of marketing plans. Strategic decision-making and organizational issues pertinent to target markets, advertising, personal selling, channels, pricing, and product development.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 461(P) & 462(P).
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 464 Management of Promotion
3 cr. Undergraduate.
Theory and concepts in developing and implementing communications strategies. Analysis of psychological, social and economic variables affecting promotion decisions.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 461(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 465 International Marketing
3 cr. Undergraduate.
Focus is on the environment and on the modifications of marketing thinking and practices, occasioned by differences in economic, social and cultural settings of countries.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 466 Business to Business Sales and Marketing
3 cr. Undergraduate.
Development, pricing, promotion and distribution of business productions and services targeted at organizational buyers. Special focus on business sales processes and effective personal selling strategies.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 467 Marketing Seminar:
3 cr. Undergraduate.
In-depth focus on specialized topics in marketing such as business-to-business sales and marketing, database and interactive marketing, and international marketing research and strategies.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
**Course Rules:** May be retaken w/chg in topic to max of 9 cr.
**Last Taught:** Spring 2020, UWinterI 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 468 Internet Marketing
3 cr. Undergraduate.
Introduction to the principles of internet marketing, types of products that can be marketed online, communication and pricing strategies, customization, channel conflict resolution. Hands-on project required.
**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 461(P) or 462(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
BUS ADM 469 Marketing Professional Internship

3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in corporate/governmental/management consulting environment.

Prerequisites: senior standing and admission to marketing major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400- level course in the marketing major; and written consent of instructor.

Course Rules: Considered full time for FA purposes. Credit/no credit only.


Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 472 Special Topics in Supply Chain and Operations Management

3 cr. Undergraduate.
Selected contemporary topics and issues confronting supply chain and operations managers.

Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

Course Rules: May be retaken w/chg in topic to max of 9 cr.

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 475 Operations Planning and Control

3 cr. Undergraduate.
Detailed focus on planning and controlling operations of a service or manufacturing operation. Topics include requirements planning and scheduling.

Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 476 Logistics and Transportation Management

3 cr. Undergraduate.
Logistics and transportation themes including warehousing, third party logistics.

Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

Course Rules: Counts as repeat of Bus Adm 472 with similar topic.


Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 477 Purchasing and Supply Management

3 cr. Undergraduate.
Domestic and global aspects of the purchasing function in an organization.

Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

Course Rules: Counts as repeat of Bus Adm 472 with similar topic.


Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 478 Supply Chain Analytics

3 cr. Undergraduate.
Topics include linear and nonlinear optimization, network modeling, decision making under uncertainty, time series forecasting, and simulation modeling.

Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 479 Supply Chain & Operations Management Professional Internship

3 cr. Undergraduate.
Defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.

Prerequisites: senior standing and admission to Bus Adm major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400- or 500-level SCOM course; and written consent of instructor.

Course Rules: Considered full time for FA purposes. Cr/no cr only.


Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 481 Real Estate Finance

3 cr. Undergraduate/Graduate.
Mechanism of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of government agencies; real estate investment analysis.

Prerequisites: jr st & admis to Bus Adm major, Bus Adm 380(P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 481G Real Estate Finance

3 cr. Undergraduate/Graduate.
Mechanism of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of government agencies; real estate investment analysis.

Prerequisites: jr st & admis to Bus Adm major, Bus Adm 380(P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 482 Real Estate Finance

3 cr. Undergraduate/Graduate.
Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties.

Prerequisites: jr st & admis to Bus Adm major, Bus Adm 380(P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 482G Valuation of Real Estate

3 cr. Undergraduate/Graduate.
Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties.

Prerequisites: jr st & admis to Bus Adm major, Bus Adm 380(P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 483 Property Development and Management

3 cr. Undergraduate/Graduate.
Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers.

Prerequisites: jr st & admis to Bus Adm major, Bus Adm 481(P) or grad st.

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 483G Property Development and Management
3 cr. Undergraduate/Graduate.
Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 481(P) or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 484 Real Estate Law
3 cr. Undergraduate.
Advanced application of business law concepts related to real estate transactions and developments; landlord/tenant law; analysis of legal concerns unique to real estate industry.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 391(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 485 Environmental Issues in Real Estate
3 cr. Undergraduate.
Survey course dealing with the impact of governmental environmental regulations on lender and developer liability. Topics include Phase I reporting, legal considerations, remediation, and wetland impacts.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 380(P).
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 490 Entrepreneur Internship
3 cr. Undergraduate.
A defined work period in an entrepreneurial capacity in a corporate, governmental, or management consulting environment.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 447(P) or completion of at least one 400-level course in student’s major; writ cons instr.
Course Rules: Credit/no credit only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 491 Legal Issues for Entrepreneurs
3 cr. Undergraduate.
Legal issues confronting entrepreneurs including the areas of ethics, forms of business organization, sales contracts, employment, property and business succession.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 391(P).
Course Rules: Not open for credit to Business Scholars who completed Bus Adm 493 with similar topic. Not open for credit to Accounting majors.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 492 Business Modeling of New Ventures
3 cr. Undergraduate.
Key elements in developing an effective business model; new venture ideas and strategies; the owner manager; management succession.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 292(P) or Bus Adm 447(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 493 Business Scholars: Seminar in Business:
3 cr. Undergraduate.
Current topics and issues in contemporary business theory and management practice, focusing on in-depth study, critical analysis, research and application across functional areas. Specific topics and additional prerequisites announced in Timetable whenever course is offered.
Prerequisites: jr st; admis to Business Scholars Prog.
Course Rules: May be retaken w/chg in topic to a 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 494 International Business Internship
3 cr. Undergraduate.
A supervised international management-related and cross-cultural experience with a for-profit or non-profit organization outside the U.S. Project and organizational evaluation required.
Prerequisites: jr st & admis to Bus Adm major; BUS ADM 330(P) or BUS ADM 331(P); BUS ADM 301(P), BUS ADM 350(P), or BUS ADM 351(P); and BUS ADM 360(P) or BUS ADM 361(P); writ cons instr.
Course Rules: Considered full time for FA purposes. Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 495 Special Topics in Business:
1-3 cr. Undergraduate.
Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 496 International Business
3 cr. Undergraduate.
The study of major factors specific to the conduct of business in international markets; focuses on the integration of marketing, finance, production, and other management functions into the world business, cultural, social, and political environments.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); Bus Adm 301(P), Bus Adm 350(P), or Bus Adm 351(P); and Bus Adm 360(P) or Bus Adm 361(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work levels, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 498 Study Abroad: Business Topics:
3 cr. Undergraduate.
Immersion (including instruction at an international university) in the
economic, cultural, and business practices of selected countries.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 499 Research in Industry
1-3 cr. Undergraduate.
Solution of business problems as jointly developed by the student, the
assigned faculty, and the cooperating company. Work will consist of
problem solving through the use of university resources and library
research.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken for cr only with prior cons Lubar School of
Business.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 530 Introduction to eBusiness
3 cr. Undergraduate.
Opportunities, technical platforms, and limitations of eBusiness over the
Internet. Various eBusiness models and implementation technologies will
be discussed.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in
Bus Adm 335(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 531 Developing Web Applications Using Web Services
3 cr. Undergraduate.
Developing n-tier systems with Web Services and the Internet, using
visual languages such as Visual Basic Script and C# and the SOAP and
XML protocols.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 432(P).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 532 Web Development for Open Business Systems
3 cr. Undergraduate.
Business applications and web development based on platform-
independent objective-oriented technologies and database connectivity
in creating information systems for eBusiness activities.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 432(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 533 Information Technology Infrastructure for Business
3 cr. Undergraduate.
Familiarize students with new infrastructure developments in
telecommunications and network technologies, as well as their
managerial and business applications.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in
Bus Adm 335(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 534 Advanced Information Technology Project Management
3 cr. Undergraduate.
Student teams will compete for and work on a real-world IT project and
present the completed project to the company's stakeholders.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 433(P).
Course Rules: Credit/no credit only.
Last Taught: Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 535 Global Information Technology Management
3 cr. Undergraduate.
Management issues surrounding the effective deployment of information
systems in different regions of the world.
Prerequisites: jr st & admis to Bus Adm Major; a grade of C or better in
Bus Adm 230(P) or 231(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 536 Business Intelligence
3 cr. Undergraduate.
Introduction to business intelligence, with a focus on data warehousing
and data mining. This course uses SAP Business Information Warehouse
software.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in
Bus Adm 335(P) or 336(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 537 Enterprise Systems Concepts and Issues
3 cr. Undergraduate.
Advanced concepts in ERP and integrated nature of business processes,
and all major components of SAP R/3 and NetWeaver tools.
Prerequisites: jr st & admis to Bus Adm major; grade of C or better in
Bus Adm 335(P) or 336(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 538 Business Process Integration
3 cr. Undergraduate.
Business process integration configuration of a hypothetical company
using SAP R/3. Create organizational structure, master data and business
rules for buying and selling products and tracking processes.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 537(P).
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 539 Web Application Server Development
3 cr. Undergraduate.
ERP Web Application Servers; Web Dynpro for Java to develop Web Applications, Web services and portal content which exposes data from SAP Business Suite.
Prerequisites: jr st & admis to Bus Adm major; grade of C or better in Bus Adm 335(P) or 336(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 540 TERP 10 Certification
3 cr. Undergraduate.
This course is designed to prepare students for taking the TERP10 Certification Exam - the global baseline certification standard for SAP University Alliances Program.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 536(P), 537(P), and 538(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 541 Cross-Cultural Management
3 cr. Undergraduate.
Business cultures around the world; the impact of cultural differences in international management and negotiations.
Prerequisites: jr st; BUS ADM 330(P); admis to Bus Adm major or declared Global Studies program.
Course Rules: BUS ADM 541 & GLOBAL 541 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 542 Introduction to Technology Entrepreneurship
3 cr. Undergraduate.
Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as repeat of Bus Adm 495 or MechEng 490 with same topic. Jointly offered with & counts as repeat of MechEng 542.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 543 Introduction to Technology Management and Innovation
3 cr. Undergraduate.
Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as a repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of MechEng 543.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 544 New Product Development
3 cr. Undergraduate/Graduate.
Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 544G New Product Development
3 cr. Undergraduate/Graduate.
Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 545 Global Innovation Management
3 cr. Undergraduate/Graduate.
Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of MechEng 546.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 546 Global Innovation Management
3 cr. Undergraduate/Graduate.
Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of MechEng 546.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 548 Technology Venturing Project
3 cr. Undergraduate.
A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).
Course Rules: Jointly offered with & counts as repeat of MechEng 548.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 550 Investment Management Practice I
3 cr. Undergraduate/Graduate.
Introduction to real-time and historic data sets and analytical software available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg and FactSet. Produce a stock report, including analysis of drivers, financial statements, and valuation.
Prerequisites: jr st, admis to Investment Mgmt Cert program, Bus Adm 450(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 705(C).
Course Rules: Considered a repeat of BUS ADM 495 and BUS ADM 795 with similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 550G Investment Management Practice I
3 cr. Undergraduate/Graduate.
Introduction to real-time and historic data sets and analytical software available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg and FactSet. Produce a stock report, including analysis of drivers, financial statements, and valuation.
Prerequisites: jr st, admis to Investment Mgmt Cert program, Bus Adm 450(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 705(C).
Course Rules: Considered a repeat of BUS ADM 495 and BUS ADM 795 with similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 551 International Investments
3 cr. Undergraduate.
Prerequisites: jr st, admis to Bus Adm major; & Bus Adm 451(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 552 Investment Management Practice II
3 cr. Undergraduate/Graduate.
Use of real-time and historic data sets available in the David O. Nicholas Applied Finance Lab such as Bloomberg, FactSet, and other analysis packages to analyze securities and prepare to manage portfolios.
Prerequisites: jr st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) & BUS ADM 451(C); or grad st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) or BUS ADM 721(C); BUS ADM 771(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 552G Investment Management Practice II
3 cr. Undergraduate/Graduate.
Use of real-time and historic data sets available in the David O. Nicholas Applied Finance Lab such as Bloomberg, FactSet, and other analysis packages to analyze securities and prepare to manage portfolios.
Prerequisites: jr st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) & BUS ADM 451(C); or grad st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) or BUS ADM 721(C); BUS ADM 771(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 553 Investment Management Practice III
3 cr. Undergraduate/Graduate.
Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio positioning, performance and risk analysis, and financial market events.
Prerequisites: jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 553G Investment Management Practice III
3 cr. Undergraduate/Graduate.
Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio positioning, performance and risk analysis, and financial market events.
Prerequisites: jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 554 Investment Management Practice IV
3 cr. Undergraduate/Graduate.
Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Special topics covered to assist individual future professional development and gain maturity and confidence in real world investment management.
Prerequisites: jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 554G Investment Management Practice IV
3 cr. Undergraduate/Graduate.
Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Special topics covered to assist individual future professional development and gain maturity and confidence in real world investment management.
Prerequisites: jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 571 Quality and Six Sigma Tools
3 cr. Undergraduate.
Principles and techniques for managing and improving quality in manufacturing and service operations. Topics include lean principles, quality function deployment, FMEA, DOE, others.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
### BUS ADM 576 Enterprise Planning in the Supply Chain

3 cr. Undergraduate.
Coverage of techniques for managing work processes within and across the supply chain. An integrated perspective is emphasized through hands-on experience with an enterprise software.

**Prerequisites:** jr st & admis to Bus Adm major; BUS ADM 475(P), 476(P) & 477(P).

**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 577 Supply Chain Applications, Policy, & Strategy

3 cr. Undergraduate.
Designed to develop a linkage between SCM and corporate strategy, a case study approach to build an integrated view of the SCM. Business game provides practical experience.

**Prerequisites:** jr st & admis to Bus Adm major; BUS ADM 475(P), & 476(P) or 477(P).

**Course Rules:** Counts as repeat of BUS ADM 472 with topics Supply Chain Strategy and Supply Chain Apps & Policy.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 599 Reading and Research-Business Administration

1-3 cr. Undergraduate.

**Prerequisites:** jr st; cons instr & Bus Adm.

**Course Rules:** May be retaken for cr only with prior approval of Lubar School of Business.

**Last Taught:** Spring 2020, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 600 Management Analysis

3 cr. Undergraduate.
Administrative processes under conditions of uncertainty including integrating analysis of policy determination at the overall management level. Capstone course in business administration.

**Prerequisites:** sr st & admis to Bus Adm major; BUS ADM 202(P) or BUS ADM 301(P); BUS ADM 330(P) or BUS ADM 331(P); BUS ADM 350(P), BUS ADM 351(P) or BUS ADM 450(C); and BUS ADM 360(P) or BUS ADM 361(P).

**Last Taught:** Summer 2020, Spring 2020, UWinteriM 2020, Fall 2019.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 701 Business Mathematics

2 cr. Graduate.
Mathematical concepts essential to business. Exponents, polynomial functions, exponential and logarithmic functions, solution of linear systems, basic differential and integral calculus; emphasizes application to business problems.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of BusMgmt 701.

**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Fall 2017.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 703 Financial Accounting

3 cr. Graduate.
Covers financial accounting model underlying financial statements, accounting standard setting, role of accounting in capital formation, interpretation and analysis of financial statements.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of BusMgmt 702.

**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 713 Business Forecasting Methods

3 cr. Graduate.
Overview and use of modern forecasting methods in support of managerial strategic planning, financial, and operational analysis of a dynamic global business environment.

**Prerequisites:** grad st; BusMgmt 709(P) or BUS ADM 754(P).

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 714 Multivariate Techniques in Management Research

3 cr. Graduate.
Multivariate analysis of variance, principal component analysis, factor analysis, conjoint analysis, bootstrap resampling, cluster analysis, canonical correlation, data mining (classification trees and neural networks); computer implementation.

**Prerequisites:** grad st; BusMgmt 709(P) or BUS ADM 754(P).

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2015.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 720 Information Systems Auditing

3 cr. Graduate.
Testing and reliance of automated application, program change and data access controls for use in the financial statement audit and system integrity.

**Prerequisites:** grad st; Bus Adm 409(P) or 728(P).

**Course Rules:** Counts as repeat of BUS ADM 795 with similar topic.

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 721 Financial Accounting Theory

3 cr. Graduate.
The principles of external reporting are integrated with approaches to problem solving. Emphasis is placed upon recent developments of the accounting profession.

**Prerequisites:** grad st; grade of B or better in BUS ADM 703(P) or 201(P) within three years of admission to the graduate program.

**Course Rules:** Not open to students who have cr in BUS ADM 301(ER).

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 722 Advanced Financial Accounting Theory

3 cr. Graduate.
Specialized topics in external financial reporting are studied. A critical appraisal is made of current and emerging accounting theory.

**Prerequisites:** grad st; grade of B or better in BUS ADM 721(P) or 301(P).

**Last Taught:** Spring 2020, Summer 2019, Summer 2018, Summer 2017.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

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### BUS ADM 723 Forensic Accounting

3 cr. Graduate.
Coverage of forensic accounting and auditing topics such as examination of documents, information sources, writing reports, identifying high-risk signs, and fraud prevention and detection.

**Prerequisites:** grad st; Bus Adm 409(P) or 728(P).

**Course Rules:** Counts as repeat of BUS ADM 795 with similar topic.

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
BUS ADM 724 Business Combinations and Governmental Accounting
3 cr. Graduate.
Accounting for mergers and acquisitions including consolidation procedures and foreign subsidiary investments. Also includes accounting principles for government and nonprofit entities.
**Prerequisites:** grad st; grade of B or better in Bus Adm 721(P) or 301(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 725 Strategic Cost Management I
3 cr. Graduate.
Cost data accumulation and its utilization by management. Emphasis on job order and process costing, standard costing, cost-volume-profit analysis, budgets, capital expenditures.
**Prerequisites:** grad st; grade of B or better in Bus Adm 703(P) or 201(P).
**Course Rules:** Cannot be taken by students receiving cr for Bus Adm 404.
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 726 Strategic Cost Management II
3 cr. Graduate.
Uses quantitative and behavioral models to aid management planning and control. Emphasizes analysis techniques to aid in the solution of accounting oriented management problems.
**Prerequisites:** grad st; Bus Adm 725(P) or 404(P).
**Course Rules:** Not open to students who have cr in Bus Adm 426(ER).
**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Spring 2013.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 728 Auditing Theory and Applications
3 cr. Graduate.
A study of auditing standards, methodology, and professional and reporting responsibilities. Emphasis is on underlying concepts and theory.
**Prerequisites:** grad st; Bus Adm 408(P) and grade or B or better in Bus Adm 721(P) or 301(P).
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 732 Transforming Organizations
3 cr. Graduate.
Combines individual and organizational-level analysis to provide insights into changing organizations. Topics include innovation, leadership, corporate cultures, and changing management from a broad view.
**Prerequisites:** grad st; BusMgmt 714(P).
**Last Taught:** Spring 2012, Spring 2011, Spring 2010, Spring 2009.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 733 Organizational Development
3 cr. Graduate.
Problems of implementing change. Roles of external and internal consultants. Determining needs and measuring relevant variables.
**Prerequisites:** grad st; BusMgmt 706(P) or cons instr.
**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 734 Managing Technological Innovation
3 cr. Graduate.
Organizational and strategic issues involved in managing technologies and innovation processes. Emphasizes professional employees, creativity, project teams, leadership, interdepartmental relations, technological evolution, and R&D strategies.
**Prerequisites:** grad st.
**Last Taught:** Summer 2012, Summer 2011, Summer 2010, Summer 2009.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 735 Staffing Organizations
3 cr. Graduate.
Broad overview of staffing practices and related research; topics include staffing strategy, legal compliance, job analysis, external recruitment and selection, staffing systems management, and retention.
**Prerequisites:** grad st
**Course Rules:** Not open for cr to those w/ cr in Bus Adm 795 w/ topic: Staffing.
**Last Taught:** Spring 2020, Spring 2019, Spring 2017, Spring 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 736 Seminar in Managing Change:
3 cr. Graduate.
Topics are limited to the areas of managing change and their business applications. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
**Prerequisites:** grad st
**Course Rules:** May be repeated w/ chg in topic to 6 cr max.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 737 Managerial Decisions and Negotiations
3 cr. Graduate.
Provides frameworks for making effective decisions and negotiating viable solutions. Improves performance in these key managerial roles by engaging in case study, exercises, and industry projects.
**Prerequisites:** grad st.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 738 Human Resource Management
3 cr. Graduate.
Strategies for attracting, retaining and developing a diverse and international workforce. Topics include employment law, diversity, staffing, training, performance management, compensation and current issues.
**Prerequisites:** grad st; BusMgmt 706(P).
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

BUS ADM 740 Information Technology Management Concepts and Languages
3 cr. Graduate.
Introduction to data organization, object-oriented design, construction and validation of application programs, development methodologies and control structures, illustrate with object programming language.
**Prerequisites:** grad st.
**Last Taught:** Summer 2018, Summer 2017, Summer 2016, Summer 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
BUS ADM 741 Web Mining and Analytics
3 cr. Graduate.
Measurement methods and analysis of web-based data for strategic
decisions; methods and technologies in web mining, visualization,
predictive analytics and text mining for knowledge discovery and
business analysis.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 743 Information Privacy, Security & Continuity
3 cr. Graduate.
Privacy threats and safeguards; identifying information system
vulnerabilities; planning and managing security measures. Ethical and
legal perspectives concerning information and data.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 744 Information Technology Strategy and Management
3 cr. Graduate.
Various frameworks to evaluate strategic value of IT, aligning IT and
competitive business strategies, IT governance models, managing IT
operations and outsourcing ethically.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 746 Topics in Information Technology Management
3 cr. Graduate.
Topics are limited to the areas in management information systems and
business application. Specific topics and any additional prerequisites will
be announced in the Timetable each time the course is offered.
Prerequisites: grad st
Course Rules: May be retaken with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 747 Service-Oriented Analysis and Design
3 cr. Graduate.
Application development using service-oriented architecture,
methodologies for specification, selection, composition, and integration of
services, software quality assurance and metrics.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 748 Managing Information Technology Projects
3 cr. Graduate.
Understand project management tools/techniques, project planning,
software effort/cost estimation models, quality tools/metrics, six-sigma,
CMM and ISO-9000, and managing outsourced/off-shored projects.
Involves team-based project implementation.
Prerequisites: grad st; Bus Adm 747(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 749 Data and Information Management
3 cr. Graduate.
Managing structured, semi-structured and unstructured data, data
integrity management, data representation, data integration, governance
and administration, data quality and reporting information.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 751 Analysis of U.S. Business Environment
3 cr. Graduate.
Analysis of inflation, business cycles, interest rate dynamics and term
structure, federal reserve policy, tax policy, and economic growth.
Prerequisites: grad st; Bus Adm 701(P) & 702(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 752 Corporate Economics
3 cr. Graduate.
Applied economic analysis of market structure, price discrimination,
oligopoly, cartels, and collusion. The course integrates the psychology of
price and behavioral economic issues in pricing.
Prerequisites: grad st in mba-executive curric or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 753 Advanced Business Law
3 cr. Graduate.
Advanced legal concepts focusing on Uniform Commercial Code,
bankruptcy and creditor protection, liability of bailees and common
 carriers, product liability, and real and personal property.
Prerequisites: grad st; Bus Adm 391(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 754 Statistical Analysis
3 cr. Graduate.
Business applications of probability theory and statistical methods to
managerial problems of prediction, inference and decision making under
uncertainty.
Prerequisites: grad st; cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 755 Health Care Administration and Delivery Systems
3 cr. Graduate.
Covers administrative structures and processes in health care
institutions, including managing clinicians and inter-organizational
relationships of U.S. and selected foreign health care providers.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 757 Managed Care and Integrated Health Networks
3 cr. Graduate.
Examines concepts and management of capitated and vertically
integrated health care organizations; utilization control, risk and
quality assessment, benefit design, pricing, management of clinical
professionals.
Prerequisites: grad st; Bus Adm 755(P).
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 759 Seminar in Health Care Management:
3 cr. Graduate.
Topics limited to the area of health care management. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st
Course Rules: May be repeated w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 761 Seminar in Marketing:
3 cr. Graduate.
Current and emerging topics in Marketing. Specific topics and any additional prerequisites will be listed in the Schedule of Classes each semester. May be repeated w/chg in topic to 6 cr. max.
Prerequisites: grad st.
Last Taught: Fall 2012, Fall 2010, Fall 2008, Summer 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 762 Marketing Research
3 cr. Graduate.
Understanding the market research process, obtaining and integrating relevant information into marketing decision-making processes. Listening to the voice of the customer, customer satisfaction measurement and technology utilization for database marketing.
Prerequisites: grad st; BusMgmt 709(C) or cons of instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 763 Marketing Analytics
3 cr. Graduate.
Theoretical background provided to develop hands-on experience analyzing marketing data and using statistical models for marketing decisions.
Prerequisites: grad st; BusMgmt 709(C) or cons instr.
Course Rules: Not open for cr to those w/cr in Bus Adm 761 or 795 w/ similar topic.
Last Taught: Summer 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 764 Buyer Behavior and Marketing Communications
3 cr. Graduate.
A multidisciplinary approach to understanding buyer behavior processes in the market place and their implications for the development of marketing strategies, especially marketing communications.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 765 Strategic Product and Brand Management
3 cr. Graduate.
Customer-focused product development and management; the creation and management of brand equity. Technology-marketing interface and customer involvement in product innovation and strategy.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 766 Marketing for Nonprofit Organizations
3 cr. Graduate.
Explores ways in which non-business organizations such as hospitals, quasi-governmental agencies and educational institutions utilize marketing concepts and techniques in fulfilling their objectives.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 768 Marketing Management
3 cr. Graduate.
Study and application of the concepts, tools and analyses that underlie strategic marketing decisions.
Prerequisites: grad st.
Last Taught: Fall 2013, Fall 2011, Fall 2009, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 769 Database Marketing
3 cr. Graduate.
Introduction to using and analyzing data on current and prospective customers to increase sales, customer acquisition, and customer retention.
Prerequisites: grad st; BusMgmt 709(C) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 771 Investments
3 cr. Graduate.
Financial assets pricing and selection for stocks, bonds, convertible securities, and warrants. Concepts of diversification, asset valuation models and derivative securities.
Prerequisites: grad st; BusMgmt 705(P) & BusMgmt 709(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 772 Portfolio Management
3 cr. Graduate.
Study of dynamic process that periodically matches investors' goals, objectives, and strategies with market expectations through portfolio construction and revision. Covers asset allocation, return optimization, and management of various asset types.
Prerequisites: grad st; Bus Adm 771(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 773 Options And Futures
3 cr. Graduate.
Pricing theories and models for options and futures contracts and their application to investment hedging, arbitrage, and portfolio management. Covers equity, fixed income, commodity, and currency options and futures.
Prerequisites: grad st; Bus Adm 771(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 774 Global Financial Management
3 cr. Graduate.
Analysis of financial problems corporations face when operating in an international environment. Emphasis on management of foreign exchange risk.
Prerequisites: grad st; Bus Mgmt 705(P).
Last Taught: Spring 2019, Spring 2017, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 775 Financial Strategy
3 cr. Graduate.
Application of financial theory to corporate strategic planning. Working capital management, capital budgeting, capital structure, dividend policy, global finance, and mergers and acquisitions.
Prerequisites: grad st; BusMgmt 705(P) & BusMgmt 709(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 777 Advanced Corporate Finance
3 cr. Graduate.
Critical examination and evaluation of modern corporate finance theory. Market efficiency, corporate investment decisions, capital structure, financing vehicles, risk management, corporate restructuring, and governance.
Prerequisites: grad st; Bus Adm 771(P), 775(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 778 Financial Institutions and Markets
3 cr. Graduate.
Application of finance theory to financial management of firms including commercial banks, insurance companies, pension funds, mutual funds, and securities firms.
Prerequisites: grad st; BusMgmt 703(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 779 Fixed Income Securities
3 cr. Graduate.
Examination of the pricing and features of modern fixed income securities including treasuries, municipals, mortgage-backed, callable and puttable bonds, convertibles, and interest rate swaps.
Prerequisites: grad st; Bus Adm 771.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 781 Enabling Supply Chains Using SAP
3 cr. Graduate.
Strategic perspectives on the role of information technology as an enabler of the supply chain processes. Hands-on use of enterprise resource planning (ERP) software.
Prerequisites: grad st; Bus Adm 703(C) and BusMgmt 711(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 782 Supply Chain Technology and Simulation
3 cr. Graduate.
Manufacturing innovations (e.g., lean manufacturing), manufacturing information systems, simulation-based technology development and prototyping, manufacturing systems design and simulation.
Prerequisites: grad st; BusMgmt 711(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 783 Supply Chain Management
3 cr. Graduate.
Management of supply chain, supply chain design, purchasing and distribution, supply contracts, and supply chain technology.
Prerequisites: grad st; BusMgmt 711(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 785 Project Management and Innovative Operations
3 cr. Graduate.
Management of innovative business projects, including multi-tier contracting, cpm/pert, virtual manufacturing, quality targeting and pursuit, and global operations.
Prerequisites: grad st; BusMgmt 711(P) & Bus Adm 782(C).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 786 Supply Chain Logistics Management
3 cr. Graduate.
Strategic perspectives on logistics management concepts, issues, and models. Topics include logistics information systems, inventory management, transportation methods, packaging, warehousing, and global issues.
Prerequisites: grad st; BusMgmt 711(P)
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 794 Enterprise Integration:
1 cr. Graduate.
Knowledge and skills important for effective integration and management of organizations across technical and business functions, and national and cultural boundaries. Topics vary and may include methods for quality improvement, management communications, business ethics, organizational leadership, etc.
Prerequisites: grad st in Bus Adm or prior approval of Bus Adm graduate prog services office.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 795 Seminar-in-Management:
1-3 cr. Graduate.
Intensive and critical examination of a specific management problem area or a related research question. Specific topic and additional prerequisites may appear in the schedule of classes each semester.
Prerequisites: grad st; appropriate management science core courses or cons instr.
Course Rules: Repeatable with change in topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 797 Management Project
2-4 cr. Graduate.
Investigation of an actual management problem or another substantive question in an allied discipline presented, for example, in the form of a business report or professional paper.
Prerequisites: grad st; cons instr.
Course Rules: May be retaken with change in topic with cons appropriate Lubar School of Business prog committee.
Last Taught: Fall 2017, Summer 2015, Summer 2013, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 798 Strategic Planning in Public and Nonprofit Sectors
3 cr. Graduate.
Focuses on effective designs for strategic planning processes and assessment of external environmental and internal organizational characteristics, design, and evaluation of strategies.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 799 Reading and Research
1-12 cr. Graduate.
Individual work suited to the needs of graduate students.
Prerequisites: grad st; cons instr.
Course Rules: May be retaken with change in topic with cons appropriate Lubar School of Business prog committee.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 800 Managing Global Organizations
3 cr. Graduate.
Theories, information, and research pertaining to management of international business including selected aspects of foreign investment decision, strategy development, organization and control of multinational operations.
Prerequisites: grad st.
Last Taught: Fall 2012, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 806 International Marketing
3 cr. Graduate.
Examines international market development including determining objectives, evaluating market opportunities, entry strategies, and marketing mix in the international environment.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 808 International Business Strategy
3 cr. Graduate.
Examines the strategic planning and action of international firms from the perspective of corporate headquarters.
Prerequisites: grad st; Bus Adm 800(P) & 806(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 810 Development of Web-Based Solutions
3 cr. Graduate.
Web development for eBusiness, web development tools and methodologies, web services, content management, developing database-driven web applications, mobile applications, and Web 2.0 technologies.
Prerequisites: grad st; Bus Adm 740(P)
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 811 Process and Work-Flow Management
3 cr. Graduate.
Business process modeling and design, process optimization, inter/intra organization process integration, process re-engineering and continuous process improvement, process execution and process implementation using ERP.
Prerequisites: grad st; BusMgmt 732(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 812 Emerging Information Technologies for Business
3 cr. Graduate.
Introduction to novel information technologies; emphasis is on assessing viability, impact, and management of emerging technologies and their integration with traditional information technology.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 813 Object-Oriented and Visual Paradigms
3 cr. Graduate.
Object-oriented/visual concepts and use in management applications; object-oriented/visual design and development methodologies/ languages; prototyping; implementation in an appropriate environment.
Prerequisites: grad st; Bus Adm 740(P).
Last Taught: Fall 2009, Fall 2008, Fall 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 814 Enterprise Knowledge & Semantic Management
3 cr. Graduate.
Managing knowledge in business enterprises including acquisition, repository creation, dissemination; organizational learning, developing enterprise ontology, collaboration management and e-collaboration; developing intelligent agents and recommendation systems.
Prerequisites: grad st
Last Taught: Fall 2018, Fall 2016, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 816 Business Intelligence Technologies & Solutions
3 cr. Graduate.
Develop business intelligence (BI) solutions using data warehousing, OLAP and data mining technologies. Students will use SAP Analytics and other tools for implementing BI solutions.
Prerequisites: grad st
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 817 Infrastructure for Information Systems
3 cr. Graduate.
Overview of computing and network technologies. Design and development of technology infrastructure for supporting modern information systems. Infrastructure management strategies, security, reliability, and performance considerations.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 818 Information Systems Practicum
3 cr. Graduate.
Team project to build a working prototype system to address specific client need. This involves need assessment, market research, requirement specification, system design and building.
Prerequisites: grad st; Bus Adm 747(P); cons instr
Last Taught: Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 819 Information Technology Management Internship
3 cr. Graduate.
A defined work period addressing information systems in a corporate, government, or management consulting environment.
Prerequisites: grad st; writ cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 820 Tax Research, Practice, and Procedure
3 cr. Graduate.
Methodology of federal tax research, including computerized research. Organization of and practice before the IRS. Audits, deficiencies, assessment and collection. Preparer penalties. Ethical responsibilities.
Prerequisites: grad st; Bus Adm 405(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 821 Advanced Taxation
3 cr. Graduate.
Advanced tax topics regarding business, individual and entity taxation.
Prerequisites: grad st, Bus Adm 406(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 823 Corporate Income Taxation
3 cr. Graduate.
Tax issues associated with formation, operations, liquidation and reorganization of regular corporations. Introduction to consolidated returns.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 825 Estate Planning
3 cr. Graduate.
Estate, gift and income tax issues associated with intra-family and charitable wealth transfers. Business succession planning.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 826 Tax Planning for Individuals
3 cr. Graduate.
Advanced tax issues and planning opportunities for individuals. Introduction to the taxation of trusts and estates, as well as estate and gift tax issues.
Prerequisites: grad st; Bus Adm 406(P)
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 827 Taxes and Business Strategy
3 cr. Graduate.
Comprehensive examination of tax planning issues associated with choice of entity, start-ups, purchase or sale of business, compensation, and financing options. Business succession planning.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 828 Taxation of Partnerships, S Corporations, and LLCs
3 cr. Graduate.
Tax issues associated with formation, operation, and dissolution of partnerships. Subchapter S corporations, and limited liability companies. Sale of ownership interests.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 829 Executive Compensation and Benefits
3 cr. Graduate.
Tax issues associated with different methods of compensating executives and other employees.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 831 Multistate Income Taxation
3 cr. Graduate.
State taxation of income derived by corporations, flow through entities, and individuals from interstate business and investment activity.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 832 Property Taxation
3 cr. Graduate.
Basic and advanced topics in state and local property taxes, with an emphasis on issues commonly encountered by multistate businesses.
Prerequisites: grad st.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 834 International Taxation
3 cr. Graduate.
U.S. taxation of income derived by corporations, flow-through entities, and individuals from both outbound and inbound business and investment activity.
Prerequisites: grad st; Bus Adm 406(P)
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 837 Sales and Use Taxation
3 cr. Graduate.
Basic and advanced topics in state and local sales and use taxes, with an emphasis on the treatment of transactions commonly encountered by multistate businesses.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 838 Managing State and Local Audits
3 cr. Graduate.
Practical insights into managing the problems encountered in state and local income, sales and use, and property tax audits.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 839 Topics in Taxation
3 cr. Graduate.
The topics are limited to the area of taxation.
Prerequisites: graduate standing and BUS ADM 406(P).
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 840 Current Issues in Financial Reporting
3 cr. Graduate.
Current topics of concern to accounting professionals such as derivatives, stock options, fair value accounting, international standards, intangible assets, SEC issues and foreign currency accounting.
Prerequisites: grad st; Bus Adm 722(P) or 402(P)
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 841 Financial Statement Analysis
3 cr. Graduate.
Prerequisites: grad st; Bus Adm 722 (C) or 402(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 844 Auditing: Professional Standards and Practices
3 cr. Graduate.
An in-depth study of the various professional standards that shape the audit process including those related to audit procedures, reporting responsibilities, and statistical sampling.
Prerequisites: grad st; Bus Adm 409(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 847 Topics in Accounting Theory
3 cr. Graduate.
Analysis of contemporary accounting issues with emphasis on applications of accounting theory and the development of research and analytical skills. Extensive use of case studies. Specific topic and additional prerequisites may appear in the Timetable each semester.
Prerequisites: grad st; Bus Adm 402(P), 403(P), & 404(P).
Course Rules: Repeatable with change in topic to 6 cr max.
Last Taught: Fall 2005, Fall 2004, Fall 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 849 Accounting Internship
1-3 cr. Graduate.
A defined work period in an accounting firm, corporation, or governmental agency.
Prerequisites: grad st; writ cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 851 Global Investments
3 cr. Graduate.
Introduce market structure, institutions, regulations, instruments, and innovations in global investments. Focus on management of foreign currency risk and performance of global investment portfolios.
Prerequisites: grad st; Bus Adm 771(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 852 Venture Finance
3 cr. Graduate.
Examine private equity industry, venture and buyout fund. Focus on the interaction of major parties, general partners, limited partners and portfolio firms.
Prerequisites: grad st; Bus Adm 705(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 853 Financial Modeling
3 cr. Graduate.
Development and advanced application of computer-based financial models including pricing of exotic derivative securities.
Prerequisites: grad st; Bus Adm 771(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2019, Spring 2018, Fall 2016, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 894 Internet Marketing
3 cr. Graduate.
Introduction to the principles of internet marketing, types of products that can be marketed online, communication strategies, selling strategies, and pricing strategies.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 895 Strategic Marketing Issues in eBusiness
3 cr. Graduate.
Online branding, internet pricing and promotion strategy, managing channel conflict, online competitive strategy, synergies between traditional and online operations, and other topical issues.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 899 Management Research Project/Thesis
1-6 cr. Graduate.
Original analysis of a management problem. Involves the application of the elements of scientific inquiry in the context of a contemporary problem.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 900 Doctoral Orientation to Teaching and Research
1 cr. Graduate.
Introduces doctoral students to academic careers and research management. Focuses on research approaches, research management in private and public organizations, and teaching responsibilities in higher education.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 914 Advanced Multivariate Techniques in Management Research
3 cr. Graduate.
Analysis of management problems using multivariate methods including logistic regression, structural equations, scale reliability measures, simultaneous inference, observational study corrections, and multidimensional scaling.
Prerequisites: grad st; Bus Adm 714(P) and 754(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 916 Advanced Operations Research Models
3 cr. Graduate.
Formulation and solution of operations research models with emphasis on models having a probabilistic structure.
Prerequisites: grad st; Bus Adm 754(P) or cons of instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 918 Doctoral Seminar in Behavioral Research Methods in Management
3 cr. Graduate.
Selected advanced topics in behavioral research methods.
Prerequisites: grad st; Bus Adm 709 or 754.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 980 Accounting Doctoral Seminar I:
3 cr. Graduate.
Selected topics focusing on accounting research. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable w/ chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 981 Accounting Doctoral Seminar II:
3 cr. Graduate.
Selected advanced topics focusing on theoretical foundations of accounting and empirical testing of such theories. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable w/ chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 983 Supply Chain and Operations Management Doctoral Seminar I:
3 cr. Graduate.
Selected topics focusing on supply chain and operations management. Includes analysis of key research, develop abilities related to research ideas, and execute empirical or analytical study to develop full research paper.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 984 Finance Doctoral Seminar I:
3 cr. Graduate.
Selected topics focusing on theoretical foundations of corporate finance and investments, and on testing such theories. Topics & prerequisites announced each time course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 990 Doctoral Seminar in Strategic Management:
3 cr. Graduate.
Selected advanced topics in strategic management. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to a 9 cr max.
Last Taught: Spring 2016, Fall 2015, Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 991 MIS Doctoral Seminar II:
3 cr. Graduate.
Selected advanced topics in management information systems. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to a 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 992 Doctoral Seminar in Marketing:
3 cr. Graduate.
Selected advanced topics in marketing. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 993 Supply Chain & Operations Management Doctoral Seminar II
3 cr. Graduate.
Selected advanced topics in supply chain and operations management. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st
Course Rules: Retakeable with change in topic to 9 cr max.
Last Taught: Spring 2019, Spring 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
BUS ADM 994 Finance Doctoral Seminar II:
3 cr. Graduate.
Selected advanced topics in finance. Specific topics and any additional
prerequisites will be announced in the schedule of classes each time the
course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 995 Doctoral Seminar in Decision Sciences:
3 cr. Graduate.
Selected advanced topics in multi-disciplinary and methodological issues
in management science. Specific topics and any additional prereqs will
be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st; Bus Adm 709 or 754.
Course Rules: Retakeable with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 996 Doctoral Seminar in Organizations:
3 cr. Graduate.
Selected advanced topics in organizations. Specific topics and any
additional prerequisites will be announced in the Timetable each time the
course is offered.
Prerequisites: grad st.
Course Rules: Retakeable w/ chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 997 Doctoral Dissertation
1-12 cr. Graduate.
Prerequisites: dissertation st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 998 MIS Doctoral Seminar I:
3 cr. Graduate.
Selected advanced topics in management information systems.
Specific topics and any additional prerequisites will be announced in the
Timetable each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable w/ chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUS ADM 999 Independent Work
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Business Management (BUSMGMT)

BUSMGMT 704 Accounting Analysis and Control
3 cr. Graduate.
Prepares managers to critically analyze, interpret and use financial
statements, cost reports, and other financial information provided by
accountants and accounting systems.
Prerequisites: grad st & Bus Adm 703(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 705 Corporate Finance
3 cr. Graduate.
Analysis of corporate financial decision-making including security
valuation, cash flow estimation, capital budgeting, financial planning,
capital structure, dividend policy, and international financial management.
Prerequisites: grad st & Bus Adm 703(P), BusMgmt 709(C).
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 706 Managing in a Dynamic Environment
3 cr. Graduate.
Provides frameworks and techniques for managing people and improving
organizations. Topics include group dynamics, leadership, performance
management, structure, innovation, power, change, and corporate
cultures.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 707 Information Technology Management in International Businesses
3 cr. Graduate.
Management of information technology including the role of enterprise
systems; business intelligence, mining, & analytics; virtual teams and
offshoring; security; and ethical/privacy issues including sustainability
and green IT in the globally connected world.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 708 Marketing Strategy: Concepts and Practice
3 cr. Graduate.
Builds key concepts in marketing strategy, develops knowledge of current
issues and provides hands-on experience in developing and executing
marketing strategies for today’s managers.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 709 Predictive Analytics for Managers
3 cr. Graduate.
Developing statistical thinking through basic concepts for data
analysis. Models for analysis of business environment, software
tools, interpretation and communication of results for management
applications.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 711 Global Supply Chain Strategies & Competitive Operations
3 cr. Graduate.
Integration and synchronization of the logistics, IT, operations, and
sourcing functions. Emphasis on fundamental supply chain strategies,
global supply chain design, tactics for supply chain process improvement
and competitive advantage.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
BUSDGM 712 Strategic Management
3 cr. Graduate.
Integrative course focused on strategic thinking and decision making at the general management level. Implementing business planning and strategy in a field-based interdisciplinary action project.
Prerequisites: admission to MBA Program and BusMgmt 704(P), 705(P), 706(P), 707(P), 708(P), 709(P), & 711(P); one prerequisite course may be completed concurrently with BusMgmt 712.
Course Rules: Not open for credit for students who have completed BusMgmt 720.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 713 Entrepreneurship: Venture Creation and Management
3 cr. Graduate.
Study of creation, growth or acquisition of a business through entrepreneurial efforts. Process of identifying and quantifying opportunities, then conceptualizing, planning and starting a new enterprise.
Prerequisites: grad st, Bus Adm 703(P) & BusMgmt 708(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 714 Managing People and the Role of General Managers
3 cr. Graduate.
Provides framework for understanding organizational behavior and roles of general managers, as distinct from functional specialists. Develops managerial skills through cases, exercises, and industry projects.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 715 Leadership, Team Building, and Effective Management
3 cr. Graduate.
Provides a working knowledge of team building, managing change, and effective business communication methods, and an understanding of leadership tools.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 716 International Business Management
3 cr. Graduate.
Theories and research pertaining to international business, including foreign investment, marketing, personnel, strategy development, and control of multinational operations.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 718 Concepts and Practice of Nonprofit Management
3 cr. Graduate.
Characteristics and formation of nonprofit organizations; building effective boards of directors; board roles and responsibilities; conflicts of interest; evaluating nonprofit performance; grant writing, foundations, and fund-raising.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 720 Strategic Management in Health Care Organizations
3 cr. Graduate.
Application of strategic management tools and techniques to health care organizations. Analyzing external, competitive, and internal environment; developing objectives; understanding current strategy; formulating and implementing future directions.
Prerequisites: grad st; Bus Adm 757(P); BusMgmt 708(P) or Bus Adm 766(P); BusMgmt 704(P), 705(P), 706(P), 707(P), & 711(P).
Course Rules: Not open for credit for students who have completed BusMgmt 712.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 721 Fundraising and Development for Nonprofit Organizations
3 cr. Graduate.
Philosophical thoughts on development; basics of fundraising; strategic planning and implementation.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 722 Global Information Technology Management
3 cr. Graduate.
Management issues surrounding the effective deployment of IT and its role in different regions of the world.
Prerequisites: grad st.
Last Taught: Summer 2013, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 723 Managing and Negotiating Across Cultures
3 cr. Graduate.
Role of culture in international management, including organization, strategy, human resource management, leadership, teams, business ethics, and negotiations.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 724 Accounting for Nonprofit Organizations
3 cr. Graduate.
Financial and managerial accounting topics for the nonprofit sector; relationship of these topics to finance, the legal environment of nonprofits, and mission of the organizations.
Prerequisites: Grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSDGM 726 Study Abroad: Business Topics:
1-3 cr. Graduate.
Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.
Prerequisites: grad st & acceptance for Study Abroad Prog.
Current Offerings: https://catalog.uwm.edu/course-search/
BUSMGMT 727 Health Care Accounting, Law and Ethics
3 cr. Graduate.
Critical examination of healthcare specific issues and differences from other industries: financial and accounting practice; legal requirements and constraints; ethical issues facing healthcare managers.
Prerequisites: grad st; BusMgmt 704(P) and 705(P).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 728 Training and Development in Organizations
3 cr. Graduate.
Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.
Prerequisites: grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar subtitle.
Last Taught: Fall 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 729 MBA Internship
3 cr. Graduate.
A defined work experience with a for-profit, non-profit, international, or government organization, applying previous coursework to a workplace setting. Project paper required.
Prerequisites: grad st; completion of any 12 cr (4 courses) from MBA Core (BusMgmt 704-711); Masters GPA of 3.50 or better; writ cons of instr.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 730 Strategic Management and Leadership for Nonprofit Organizations
3 cr. Graduate.
Concepts and methods of strategic thinking and applications of strategy in nonprofit organizational settings. Nonprofit governance and executive leadership roles in strategy formation and implementation.
Prerequisites: grad st; BusMgmt 718(P) or Pol Sci 789(P) or Pol Sci/Sociol/Urb Std 704(P); BusMgmt 721(P), 724(P), & 725(P); Bus Adm 766(P) or Pol Sci 705(P) or Pol Sci 791(P); Pol Sci 792(P) & 793(P)
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 731 Research Tools for Practitioners in Human Resources and Labor Relations
3 cr. Graduate.
Planning and carrying out simple surveys; evaluating policies, programs, and procedures in organizations; interpreting, evaluating and using research conducted by others.
Prerequisites: grad st; Econ 210(P) or Bus Adm 210(P) or cons instr.
Course Rules: Ind Rel 731 and BusMgmt 731 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 732 Enterprise Resource Planning
3 cr. Graduate.
Enterprise Resource Planning concepts, fundamental business processes, interaction of various functional areas, development tools for the implementation of web-based ERP applications.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 733 Enterprise Simulation Game
3 cr. Graduate.
Use ERP simulation game, develop understanding of ERP concepts, experience benefits of ERP, develop technical skills using ERP software.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 734 Enterprise Resource Planning Certification
3 cr. Graduate.
Understand interdependencies and integration of key business processes and power of technology-enabled ERP system to increase productivity and improve business performance. Includes TERP 10 certification exam preparation.
Prerequisites: grad st; Bus Adm 811(P)
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 735 Advanced Spreadsheet Tools
1 cr. Graduate.
Covers advanced spreadsheet decision making tools. Business problems from across the enterprise will be solved using EXCEL functions, pivot tables, scenario evaluation and others.
Prerequisites: grad st; Bus Adm 701(C).
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 736 Understanding and Using Corporate Financial Reports
2 cr. Graduate.
Introduces corporate financial reporting practices, accounting terminology, and disclosure concepts. Develops skills in reading and analyzing annual reports. Emphasizes the impact of alternative accounting practices.
Prerequisites: grad st; Bus Adm 701(C).
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 737 Business Strategy and Economics
2 cr. Graduate.
Economics analysis of applied problems in business. Includes behavioral economics, game theory, pricing in oligopolies, monopolies, price discrimination, and the psychology of pricing.
Prerequisites: grad st; Bus Adm 701(C).
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
BUSMGMT 738 Critical and Analytical Thinking in Business
2 cr. Graduate.
Provides training, practice, and feedback in the construction, presentation, and evaluation of clear, well-reasoned arguments. Interactive sessions and structured assignments highlight business applications.
Prerequisites: grad st; Bus Adm 701(C).
Last Taught: Fall 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 741 Management of Technology Ventures
3 cr. Graduate.
Development, launch, and management of technology ventures including venture growth management. Prepares students to lead and manage technology ventures.
Prerequisites: grad st & admis to business or engineering program or admis to Tech Entrep Cert program.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 742 Technology Innovation and Corporate Entrepreneurship
3 cr. Graduate.
Advanced concepts related to technology management, technological innovation, technology strategy, and corporate entrepreneurship. Prepares students to lead technology commercialization projects.
Prerequisites: grad st & admis to business or engineering program or admis to Tech Enrep Cert program.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 743 Technology Entrepreneurship Project
3 cr. Graduate.
Integration of key product/service innovation, commercialization, and entrepreneurship processes in the establishment of new (or corporate) technology ventures; trains students to lead new ventures.
Prerequisites: grad st & admis to business or engineering program or admis to Tech Entrep Cert program; BusMgmt 741(P).
Current Offerings: https://catalog.uwm.edu/course-search/

BUSMGMT 744 R Programming for Business Analytics
3 cr. Graduate.
Focus on basic data manipulation and statistical modeling in R. The objective is to develop R programming skills to investigate different types of business data to inform business decisions.
Prerequisites: grad st; BusMgmt 709(P).
Current Offerings: https://catalog.uwm.edu/course-search/

Celtic Studies (CELTIC)

CELTIC 103 First Semester Gaelic
3 cr. Undergraduate.
Beginning Gaelic for students with no previous knowledge of the language. Counts as repeat of Linguis 131 with 'First Semester Gaelic' subtitle.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 104 Second Semester Gaelic
3 cr. Undergraduate.
Continuation of Celtic 103(Linguis 181).
Prerequisites: Celtic 103(Linguis 181)(P).
Course Rules: Counts as repeat of Linguis 132 with 'Second Semester Gaelic' subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 133 Celtic Crossings: Overview of the History and Cultures of the Celtic World
3 cr. Undergraduate.
Interdisciplinary exploration of the archaeology, history, literature, language, myth, and arts of the Celtic peoples (Cornish, Irish, Scots, Welsh, Manx, Breton, & Galicia).
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 199 Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Celtic Studies faculty or staff member. Written course proposal required prior to reg. For additional information, consult program coordinator.
Prerequisites: 2.50 GPA on at least 12 graded credits; consent of instructor and program coordinator.
Course Rules: Retakable with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 203 Third Semester Gaelic
3 cr. Undergraduate.
Continuation of Celtic 104 (Linguis 182).
Prerequisites: Celtic 104(Linguis 182)(P).
Course Rules: Counts as repeat of Linguis 231 with 'Irish (Gaelic)' subtitle.
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
CELTIC 204 Fourth Semester Gaelic
3 cr. Undergraduate.
Continuation of Celtic 203(Linguis 281).
Prerequisites: Celtic 203(Linguis 281)(P).
Course Rules: Counts as repeat of Linguis 232 with 'Irish (Gaelic)' subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 250 Selected Topics in Celtic Studies:
3 cr. Undergraduate.
Focus on an individual Celtic group or one particular aspect of Celtic culture.
Prerequisites: none.
Course Rules: Not open to students with cr in Ethnic 250 with similar topic. Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 285 Modern Irish Language and Literature in Translation
3 cr. Undergraduate.
Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: Celtic 285 & English 285 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 289 Internship in Celtic Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Celtic stds; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 300 Advanced Topics in Celtic Studies:
3 cr. Undergraduate.
Focus on an individual Celtic group or one particular aspect of Celtic culture.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 489 Internship in Celtic Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Celtic stds; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Fall 2016, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: jr st; add'l prereqs may be assigned to specific topics.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CELTIC 699 Advanced Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Celtic Stds faculty or staff member. Writ course proposal req’d prior to reg. For add’l info, consult prog coord.
Prerequisites: jr st; 2.0 GPA; consent of instructor program coordinator, and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 9 cr max.
Last Taught: Spring 2015, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS American Indian Studies (CGS AIS)

CGS AIS 101 Introduction to American Indian Studies
3 cr.
Introduction to the history, culture, and sovereignty of American Indians through the disciplines of Anthropology, Business, Geography, History, Political Science, and Sociology; American Indian perspectives of historical events and policies. Explores how historical events affect sovereignty, political relationships, and current American Indian issues. This course focuses on Wisconsin Indians, meeting the requirements of Wisconsin DPI Act 31.
Prerequisites: Prerequisite: none.
General Education Requirements: CD, IS, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS AIS 260 American Indian Art
3 cr.
A survey of North American Indian art and its relationship to Native American cultures, past and present. Looks at pre-Columbian art, changes in art with European contact, and the most recent trends in Native American art. Philosophies of aesthetics and the relationship of art to material culture and worldview will be analyzed from the cross-cultural perspective of the anthropology of art.
Prerequisites: none.
General Education Requirements: A, CD
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS AIS 277 Indians in American History
3 cr.
Surveys U.S. history with emphasis on contact in the age of exploration, interactions over time between Europeans and Native Americans, and adaptations and conflicts that emerged from social, political, and economic perspectives from the colonial period to the present. Focuses on understanding the perspectives of Native Americans.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Anthropology (CGS ANT)

CGS ANT 100 Introduction to Anthropology
3 cr.
A survey of the subfields of anthropology, especially archaeology and physical and cultural anthropology. The course explores human biological evolution and variation, cultural evolution, language, and culture change.
Prerequisites: none
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 102 Discovering our Past: An Introduction to Archaeology and the Prehistoric World
3 cr.
Introduction to the prehistoric world from origins of human culture to the beginnings of written history as revealed by archaeological research at great sites and ruins around the globe. Archaeological analysis of famous prehistoric sites as case studies to illustrate concepts and techniques used by archaeologists in their efforts to understand the rise, florescence, and demise of vanished societies.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 104 Introduction to Cultural Anthropology
3 cr.
Survey of cultural anthropology with emphasis on ethnographic description, methodology and contemporary theory. Cross-cultural comparisons of societies and institutions. Course includes both humanistic and social scientific approaches to human sociocultural diversity.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 105 Introduction to Biological Anthropology
3-5 cr.
A study of evolutionary theory, the place of humans in the primate order, the fossil evidence for human evolution and interpretation of that evidence, the biological and genetic basis of human variation, and possible other topics of human biology. NS if 3 cr.; if 4 cr. or 5 cr., also LS.
Prerequisites: none
General Education Requirements: NS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 134 Indians of North America
3 cr.
A survey of diverse and complex American Indian cultures and Peoples in North America. Exploring the impact of the past and the influences of Euro-American culture on Native Nations and Peoples with an emphasis on the varied Native responses to cultural contact.
Prerequisites: Previous Anthropology course or consent of instructor.
Course Rules: AIS 314 and ANT 314 are the same course.
General Education Requirements: CD, SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 150 Food, Culture, and Identity
3 cr.
The role of food in human history, and the biocultural construction of what is classified as food; examines the meaning of food across cultures with particular attention to how cultural and ethnic identities are associated with particular types of food. Rituals, religions and family celebrations, and secular holidays all include the deliberate preparation, serving and sharing of food or abstinence from food.
Prerequisites: none
General Education Requirements: CD, SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS ANT 291 Selected Topics in Anthropology
1-3 cr.
A specific topic in an instructor’s area of special competence. When offered, the particular topic is indicated in the campus timetable.
Prerequisites: Previous CGS ANT course or cons. instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 294 Practice in Applied Anthropology
1-3 cr.
Supervised practical experience in an organization or activity appropriate to a student’s career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
Prerequisites: previous anthropology course and cons. instr.
Course Rules: Repeatable for a maximum of six credits.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 299 Independent Reading and Research
1-3 cr.
Independent reading and research in Anthropology.
Prerequisites: Cons. instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 314 Indians of North America
3 cr.
A survey of diverse and complex American Indian cultures and Peoples in North America. Exploring the impact of the past and the influences of Euro-American culture on Native Nations and Peoples with an emphasis on the varied Native responses to culture contact.
Prerequisites: Previous Anthropology course or consent of instructor.
Course Rules: CGS AIS 314 and CGS ANT 314 are the same course.
General Education Requirements: CD, SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ANT 343 Religion, Magic and Witchcraft
3 cr.
Descriptions and interpretations of magico-religious beliefs and practices in a variety of cultures from an anthropological perspective; examines theories about religion and some of the conceptual issues regarding the interpretation of religion and related phenomena which have interested anthropologists over time.
Prerequisites: none.
Course Rules: CGS ANT 343 and CGS REL 343 are the same course. Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 101 Introduction to Drawing
3 cr.
Principles of creative and structural drawing; a foundation course that explores a variety of ideas, techniques, and materials with a perceptual focus; drawing as a fine art and a basis for structure. An investigation of methods and materials.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 102 Intermediate Drawing
3 cr.
Principles of creative and structural drawing; a second semester foundation course that explores a variety of ideas, techniques, and materials with a perceptual focus; drawing as a fine art and a basis for structure. Studio work in drawing with a variety of materials, techniques, and ideas. An investigation of methods, materials, and mixed media possibilities. An introduction to figure drawing. The class is conceptually based with an involvement and emphasis on structure, ideas and process.
Prerequisites: CGS ART 101.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 111 Two-Dimensional Design
3 cr.
Investigation of the basic elements and principles of two-dimensional design; arrangement of line, value, texture, and color theory, possible computer exercises.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 112 Three-Dimensional Design
3 cr.
Investigation of the basic elements and principles of three-dimensional design in the use of volume and spatial arrangement.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 118 Digital Imaging and Design
3 cr.
Basic skills and vocabulary of digital technology; exploration of popular graphics software and hardware. Integration of digital imagery with more traditional media. Development of a portfolio for transfer.
Prerequisites: none.
Course Rules: Previously CGS ART 216.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS ART 121 Introduction to Painting
3 cr.
Basic experience in various media - may include oil, watercolor, acrylic media, a survey of studio methods.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 125 Oil Painting
3 cr.
Exploration of oil media; aspects of traditional and contemporary procedures. Lecture-lab.
Prerequisites: CGS ART 121 or cons. instr.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 131 Introduction to Sculpture
3 cr.
Basic experience in three-dimensional media. A survey of materials and procedures used in sculptural processes.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 141 Introduction to Printmaking
3 cr.
Exploration of the graphic media. May include relief, intaglio, serigraphy, lithography.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 154 Introduction to Ceramics
3 cr.
Exploration of materials and processes; hand and wheel forming; glazing, firing, and kiln management.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 161 Introduction to Photography
3 cr.
Introduction to photography, which includes building technical abilities, vocabulary and an understanding of the principles and history of traditional/contemporary B&W photography as an expressive art form. May include working in the darkroom and/or working with digital imaging programs and alternative photo processes.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 161X Introduction to Photography
3 cr.
Introduction to photography, which includes building technical abilities, vocabulary and an understanding of the principles and history of traditional/contemporary B&W photography as an expressive art form. May include working in the darkroom and/or working with digital imaging programs and alternative photo processes.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 175 Worlds of Art--Images/Objects/Ideas
3 cr.
An introduction to the visual arts, intended for the non-art major, which emphasizes cross-cultural perspectives - specifically the impact race and ethnicity have on artistic production, art criticism, art philosophies and aesthetics among the four major ethnic groups in the United States - African American, Native American, Asian American, and Hispanic/Latino American. Field trips may be required.
Prerequisites: none.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 181 Survey: Ancient and Medieval Art
3 cr.
Art and architecture from the Old Stone Age to the Gothic era. Field trip.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 183 Survey: Renaissance - Modern Art
3 cr.
Architecture, sculpture, painting, and decorative arts from the Late Middle Ages to the modern era. Field trip.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 187 Survey: Modern Art
3 cr.
Painting, sculpture, printmaking, and drawing of the modern era. Field trip.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 188 Survey: Modern Architecture and Design
3 cr.
Architecture, landscape architecture, city planning, interior and industrial design of the modern era. Field trip.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS ART 191 Art of American Advertising: Colonial Period to the Present
3 cr.
Introduction to the history of the art of persuasion found in popular print advertising in America over the last two-hundred years as it relates to the needs, fears, and desires of the American consumer society.
Prerequisites: none.
Course Rules: Count as a repeat of CGS ART 291 with similar topic.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 201 Introduction to Life Drawing
3 cr.
Anatomical and compositional considerations related to drawing from the human figure.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 202 Intermediate Life Drawing
3 cr.
Advanced study of anatomical and compositional considerations related to drawing from the human figure. Lecture-lab.
Prerequisites: CGS ART 201(P).
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 212 Three-Dimensional Design II
3 cr.
Three-dimensional visual experiences and the application of design principles to space, form and materials. Students receive instruction in the proper and safe use of simple hand tools and power equipment.
Prerequisites: CGS ART 112(P).
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 225 Intermediate Oil Painting
3 cr.
Continuation of CGS Art 125 with emphasis upon individual development.
Prerequisites: CGS ART 125.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 231 Intermediate Sculpture
3 cr.
Second year level course with emphasis upon technical problems related to individual projects.
Prerequisites: CGS ART 131.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 232 Sculpture II
3 cr.
Advanced work in sculptural expression; traditional and contemporary methods of production. Lecture-lab.
Prerequisites: CGS ART 231(P).
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 241 Lithography
3 cr.
Piano graphic printing; use of stone and metal plates, with exploration of various offset media.
Prerequisites: ART 141(R).
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 254 Intermediate Ceramics
3 cr.
Continuation of ART 154. Further development of craftsmanship with emphasis upon individual projects. Lecture-lab.
Prerequisites: CGS ART 154(R).
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 255 Ceramics II
3 cr.
Advanced work in ceramic processes. May include construction and use of molds, slip casting; production technology. Lecture-lab.
Prerequisites: ART 254(P)
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 260 American Indian Art
3 cr.
A survey of North American Indian art and its relationship to Native American cultures, past and present. Looks at pre-Columbian art, changes in art with European contact, and the most recent trends in Native American art. Philosophies of aesthetics and the relationship of art to material culture and worldview will be analyzed from the cross-cultural perspective of the anthropology of art.
Prerequisites: none.
General Education Requirements: A, CD
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 261 Intermediate Photography
3 cr.
A continuation of CGS Art 161 with emphasis on working with color and expanding photographic skills. Study geared toward specific student interests and the development of a portfolio for transfer.
Prerequisites: CGS ART 161.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 291 Special Topics
1-4 cr.
Prerequisites: Consent of instructor; also Department Chair approval.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ART 299 Independent Study
1-3 cr.
Independent study.
Prerequisites: consent of instructor and department chair.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS Astronomy (CGS AST)

CGS AST 100 Survey of Astronomy
3-4 cr.
Descriptive survey of astronomy for students with minimal background in mathematics and science. Topics include the solar system, stars, nebulae, galaxies, cosmology, and astronomical methods.
Prerequisites: High school algebra and geometry or cons. instr. NS; if 4 cr, also LS.
Course Rules: May be offered for 3 credits without laboratory work, or for 4 credits with laboratory work consisting of telescopic observation, laboratory demonstration, and astronomy exercises. Students may not earn credit for both AST 100 and 105.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS AST 101 Observational Astronomy
1 cr.
Observation of solar system, galactic and extra-galactic objects, and introduction to basic observational techniques in astronomy. Includes telescopic and unaided eye observation, positional astronomy, astrophotography, optic spectroscopy, interpretation of astronomical data, and astronomy laboratory exercises.
Prerequisites: One year of high school algebra and one year of high school geometry or one semester of college algebra. If the prerequisite math course was taken more than five years ago, cons. instr. required.
Course Rules: Students who have CGS AST 200 or CGS AST 100 for 4 credits, or equivalent courses, are not eligible for this course.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS AST 105 The Solar System
3-4 cr.
Contemporary understanding of the Solar System; the sky and celestial motions; ancient astronomy; the Copernican revolution; light, gravity, orbits, and astronomical instruments; formation of the solar system; sun, planets and moons; asteroids, comets, meteors and meteorites; and the origin of life.
Prerequisites: High school algebra and geometry or cons. instr. NS; if 4 cr., also LS
Course Rules: May be offered for three credits without laboratory work or for four credits with laboratory work consisting of telescopic observation, laboratory demonstration and/or astronomy exercises. Students may not receive credit for both CGS AST 100 and 105.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS AST 106 Stars, Galaxies and the Universe
3-4 cr.
Contemporary understanding of stellar systems.
Prerequisites: High school algebra and geometry or consent of instructor. NS; if 4 cr., also LS with lab work.
Course Rules: May be offered for three credits without laboratory work or for four credits with laboratory work consisting of telescopic observation, laboratory demonstration and/or astronomy exercises. Students may not receive credit for both CGS AST 100 and CGS AST 106.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS AST 291 Topics in Astronomy
1-5 cr.
An extended coverage of one or more topics in astronomy such as extra-terrestrial life, archeoastronomy, cosmology, astrophysics, radio astronomy, stellar structure, dynamical astronomy, galactic structure and observational astronomy.
Prerequisites: Math competency at the level of CGS MAT 105.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Biology (CGS BIO)

CGS BIO 101 Concepts of Biology
5 cr.
An introduction to the fundamental principles of living organisms. Includes cell and tissue structure, growth, basic physiological processes, reproduction and inheritance, classification, evolution and ecology. Lecture, lab, and may also include demonstrations, discussion and field trips.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 104 Plants In Today's World
3 cr.
Structure, functions, life histories, taxonomy and evolution of representative plants throughout the plant kingdom. Lecture, lab, and may also include demonstrations, discussion and field trips.
Prerequisites: none.
Course Rules: Previously BOT 100.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 105 Greek and Latin Origins of Medical and Scientific Terminology
2-3 cr.
UW COLLEGES COURSES ONLINE ONLY. The course is designed to acquaint students pursuing science and other majors with the origins of technical terms they are likely to encounter.
Prerequisites: none.
Last Taught: Summer 2020, Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 141 Heredity
3 cr.
Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences. Lecture and may also include demonstrations, discussion and field trips.
Prerequisites: none.
Course Rules: Previously CGS BIO 160.
General Education Requirements: NS
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS BIO 150 Foundations of Biological Sciences I
5 cr.
First semester of a two semester course designed for majors in biological sciences. Cell structure/function, cellular metabolism enzymes, respiration, photosynthesis, information flow DNA, RNA, protein, principles of genetics, and speciation and evolutionary theory.
Prerequisites: 1 year of high school Chemistry with a grade of B or better; or CGS CHE 112; or consent of instructor.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 152 Foundations of Biological Sciences II
5 cr.
Second semester of a two semester course designed for majors in biological sciences. Continuation of CGS BIO 150.
Prerequisites: grade above C- in CGS BIO 150(P).
Course Rules: Topics include: a survey of the three domains of life, selected topics in plant and animal physiology, and ecology at multiple levels of the biological hierarchy.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 164 Plants and Civilization
2 cr.
The study of plants from an historical and geographical perspective, and how plants are used in the modern world as a source of food, drugs, and other materials.
Prerequisites: none.
Course Rules: Previously BOT 240. Lecture and may also include demonstrations, discussion and field trips.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 180 Introduction to Human Biology
3 cr.
Introduction to the development, nature, and processes of human adaptability. Lecture and may also include demonstrations, discussion and field trips.
Prerequisites: none.
Course Rules: Previously ZOO 105.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 184 Biology of Human Sexuality and Reproduction
3 cr.
Biological aspects of human sexuality and reproduction, including topics from a biological perspective: birth control, sexually transmitted diseases, birth defects, abortion, differences between the sexes, and the manipulation of the human reproductive process by science. Lecture and may also include demonstrations, discussion and field trips.
Prerequisites: none.
Course Rules: Previously ZOO 155.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 190 Introduction to Environmental Science
3 cr.
Principles underlying the proper management of our resources: water, soils, minerals, forests, wildlife and human. This meets the statutory requirement for Conservation of Natural Resources required for State certification for teachers of science and social sciences.
Prerequisites: Previously BIO 107. Lecture and may also include demonstrations, discussion and field trips. A student may not earn credit for both CGS BIO 190 and CGS BIO 191.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 191 Environmental Science
3-4 cr.
Contemporary study of the natural world through the human perspective, including humans as a modifying force in the biophysical environment. Selected topics: ecological principles, pollution, population biology, and environmental management. This course meets the statutory requirement for Conservation of Natural Resources required for State certification for teachers of science and social sciences. Lecture, lab, and may include demonstrations, discussions, and field trips.
Prerequisites: none.
Course Rules: Previously CGS BIO 108. A student may not earn credit for both CGS BIO 190 and CGS BIO 191.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 201 Human Structure & Function
3 cr.
Introduces non-Biology majors to the study of how the human body is organized. Major organ systems of the human body and how its structure relates to function. Lecture, lab, and may also include demonstration.
Prerequisites: none.
Course Rules: Previously CGS BIO 182.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 202 Anatomy and Physiology 1
4 cr.
An examination of the structure and function of the human body at the molecular, cellular, tissue, organ, and system levels of organization. The integration of these levels of organization within the human organism is emphasized.
Prerequisites: Completion of one of the following: CGS BIO 101, CGS BIO 121, CGS BIO 162, CGS BIO 171, BIO 109, BOT 130, or ZOO 101; or consent of instructor.
Course Rules: Previously CGS BIO 285. Lecture, lab, and may also include demonstrations, discussion and field trips.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/
CGS BIO 203 Anatomy and Physiology 2
4 cr.
Examination of the structure/function of the human body at the molecular, cellular, tissue, organ, and system levels. Integration of these levels of organization within the human organism. Second semester of a two-semester class.
Prerequisites: CGS BIO 202 or CGS BIO 285.
Course Rules: Previously CGS BIO 286. Lecture, lab, and may also include demonstrations, discussion and field trips.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 211 Genetics
3-4 cr.
Laws of variation and heredity and their modification by environment, genetic engineering, and chromosome behavior with emphasis on human genetics. Lecture, lab, and may also include demonstrations, discussion and field trips.
Prerequisites: introductory CGS BIO course.
Course Rules: Previously BIO 260.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 251 General Survey of Microbiology
4-5 cr.
Survey of micro-organisms and their activities; emphasis on structure, taxonomy, function, ecology, nutrition, physiology, pathology and genetics. Survey of applied microbiology: agricultural, medical, industrial, environmental and food. The laboratory is an introduction to standard techniques and procedures in general microbiology. Lecture, lab, and may also include demonstrations, discussion and field trips.
Prerequisites: CGS BIO 101, CGS BIO 121, CGS BIO 162, or CGS BIO 171 required, or cons. instr.
Course Rules: Previously BAC 201. CGS CHE 125 recommended.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 298 Special Topics in Biology
1-3 cr.
Designed to cover topics in biology not ordinarily covered in other classes.
Prerequisites: none.
Course Rules: Previously CGS BOT 291/CGS ZOO 291.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 299 Reading and Research in Biology
1 cr.
Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation and to give practical experience in scientific problem-solving.
Prerequisites: consent of instructor.
Course Rules: Previously CGS BAC 299, CGS BOT 299, and CGS ZOO 299.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 310 General Ecology
4 cr.
Interrelationships between living organisms and their environment, ecosystems concepts, population dynamics, community organization and distribution, and application of ecological principles to humans and their environment.
Prerequisites: CGS BIO 152(P).
Course Rules: Previously CGS BIO 201 and CGS BIO 250. Lecture, lab, and may also include demonstrations, discussion and field trips.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 398 Special Topics: The Ecology of Food Production
3 cr.
Focused exploration of the environmental impact of industrialized agricultural systems; history and practice of food production and global distribution; current industrialized agricultural practices on the environment; food systems, food security, sustainable agricultural practices and alternative food sources; social, political, ethical, and economic forces that relate to farming practices, global food distribution, and consumption.
Prerequisites: Junior standing or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BIO 430 Animal Behavior-Ethology
3 cr.
A general introduction to the field of animal behavior. Evolution and natural selection, social behavior, communication, reproduction, orientation and navigation, and hormonal mechanisms of behavior.
Prerequisites: CGS BIO 310(P).
Course Rules: Previously CGS BIO 373. Lecture, lab, and may also include demonstrations, discussions, and field trips.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Business (CGS BUS)

CGS BUS 101 Introduction to Business
3 cr.
Introduction to the role of business in the modern political, social and economic environments; describes career opportunities.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 110 Personal Finance
3 cr.
A study of personal financial management. Examines the financial problems and consequent financial decisions required of individuals in our economy. Subjects covered are applications in family budgeting, consumer buying decisions, borrowing, insurance, personal real estate, income taxation, investments, and estate planning.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/
CGS BUS 194 Career & Life Planning
2 cr.
This course will enable students to develop career goals and lay out a path for achieving these goals. Students will examine their personal interests, aptitudes, values, decision-making skills, academic plans, and career awareness. This personal, educational, and occupational information will then be organized and translated into an individualized course of action. Integration of career goals with current and future college course work will be stressed.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 201 Introductory Accounting
4 cr.
Fundamental principles, terminology, techniques, and applications; books, accounts and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts.
Prerequisites: Open to second semester freshmen or cons. instr.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 201X Introductory Accounting
4 cr.
Fundamental principles, terminology, techniques, and applications; books, accounts and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts.
Prerequisites: Open to second semester freshmen or cons. instr.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 202 Intermediate Accounting
4 cr.
Accounting theory principles, concepts, and procedures and their applications as applied to balance sheet and income statement accounts, presentation and interpretation of financial statements; problems of terminology, valuation, and analysis are included.
Prerequisites: CGS BUS 201.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 204 Managerial Accounting
3 cr.
Interpretation and application of accounting reports by management in planning, coordinating, and controlling business activities; presentation, analysis and interpretation of financial data; internal control and reports to management; cost-volume-profit relationships, budgets, costs, and managerial decision making.
Prerequisites: CGS BUS 201.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 210 Business Communication
3 cr.
Study and practice of the techniques of achieving clarity, brevity and effectiveness in business communication. Planning, preparation, critiquing of business letters, memoranda, short and long reports, resumes, manuals of procedure, and oral reports.
Prerequisites: CGS ENG 102 or cons instr.
Course Rules: CGS BUS 210 and CGS ENG 210 are the same course; they count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 222 Diversity in Business
3 cr.
Explores diversity in business within the United States political and social context. Examines impact on the workplace and experiences of minority entrepreneurs. Includes the perspectives and experiences of at least two groups: African Americans, American Indians, Hispanics, and/or Asian Americans in the United States.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 230 Introduction to Management Information Systems
3 cr.
An introductory course designed to provide students with a fundamental knowledge of management information systems and their concepts including the use of information systems for management decision-making and the impact of information systems on management. Topics may vary as technology changes but the students will learn the tools of productivity i.e. Excel such as electronic spreadsheet, data base, and graphics.
Prerequisites: Second-semester freshman or cons. instr.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 242 Business Ethics
3 cr.
Critical discussion of ethical reasoning and moral values in business and industry; includes relevant case studies and readings.
Prerequisites: none.
Course Rules: CGS BUS 242 and CGS PHI 243 are the same course; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 243 Economic and Business Statistics
3 cr.
Elementary theory and business application of statistical techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares.
Prerequisites: A grade of C or better in CGS MAT 105 or CGS MAT 108 or equivalent.
Course Rules: CGS BUS 243 and CGS ECO 243 are the same course.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/
CGS BUS 244 International Business
3 cr.
This course focuses on the study of how businesses conduct their operations in the global economy. The political, legal, cultural, social and economic challenges confronting businesses in international markets will be examined. Topics covered include trade strategies, international business operations, international trade and financial theory and policy, foreign exchange markets and the theory of multi-national enterprises.
Prerequisites: An economics course or cons. instr.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 272 The Legal Environment of Business
3 cr.
UW COLLEGES COURSES ONLINE ONLY. Contemporary and comprehensive examination of the legal and ethical environment in the United States within which business operates. Elements of traditional business law; knowledge of the legal and regulatory environment of business will provide a practical background for students in many careers.
Prerequisites: Prereq first semester college students require consent of instructor.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 294 Internship in Business or Economics
1-3 cr.
Internship providing students with opportunities to apply knowledge and skills learned in Business and/or Economics courses to professional experiences while working in a business or non-profit organization.
Prerequisites: Prior Business or Economics class and cons. instr.
Course Rules: Credit is based on hours employed and on instructor evaluation of student learning. Repeatable for a maximum of six credits.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS BUS 299 Independent Studies
1-3 cr.
Prerequisites: consent of instructor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Chemistry (CGS CHE)

CGS CHE 112 Foundations of Chemistry
2 cr.
Designed to prepare students with limited science backgrounds for success in CGS CHE 125, the CGS CHE 145/ CGS CHE 155 sequence, or CGS CHE 165. Through lectures and discussions, this course emphasizes fundamental chemical concepts, chemical nomenclature and problem-solving skills.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 123 Chemistry and Society
3 cr.
A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and may also include discussions and demonstrations.
Prerequisites: None.
Course Rules: Not a suitable prerequisite for higher-level chemistry courses or pre-professional programs. A student may not earn more than four credits by taking CHE 121, CHE 123 and CHE 124.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 124 Applied Chemistry and Society
4 cr.
A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and laboratories and may also include discussions and demonstrations.
Prerequisites: none.
Course Rules: Not a suitable prerequisite for higher-level Chemistry courses or pre-professional programs. A student may not earn more than four credits by taking CGS CHE 121, CGS CHE 123 and CGS CHE 124.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 125 Introductory Chemistry
5 cr.
General chemistry with an emphasis on organic chemistry. Designed for students in nursing and related fields.
Prerequisites: One year of high school chemistry, or CGS CHE 112(P), or another preparatory chemistry course and Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in CGS MAT 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: Students may not count both CGS CHE 125 and CGS CHE 145 toward the natural science or laboratory science requirement for the associate degree. Does not serve as a prerequisite for CGS CHE 155.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 145 General Chemistry I
5 cr.
For students whose programs require a year of college chemistry or who plan to take advanced courses in chemistry.
Prerequisites: Demonstrated competency at MAT 105 level or concurrent MAT 105 enrollment or cons. instr. One year of recent high school chemistry, CHE 112, or another preparatory chemistry course is recommended, but not required.
Course Rules: Students may not count both CHE 125 and CHE 145 toward the Natural Sciences or Laboratory Science degree designation requirement for the Associate of Arts and Science degree.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/
CGS CHE 155 General Chemistry II
5 cr.
The second semester of a one-year course in college chemistry. Consists of lectures, discussions, and laboratories.
Prerequisites: A grade of C- or better in CGS CHE 145 and demonstrated competency at the CGS MAT 110 level or concurrent CGS MAT 110 enrollment or cons. instr.
Course Rules: For students whose programs require a year of college chemistry or who plan to take further courses in chemistry.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 165 Chemistry for Engineers
5 cr.
A one-semester chemistry course for engineering students. Topics include measurements, atomic theory, stoichiometry, molecular structure, thermochmistry, electrochemistry, solid state, material science, and organic chemistry.
Prerequisites: Grade of C- or better in CHE 112 or CHE 125 or grade of B or higher in high school chemistry and a grade of C or better in MAT 110 or MAT 124 or placement into MAT 221 based on placement test score, or cons. instr. Not a suitable substitute for the CHE 145/155 prerequisite for organic chemistry.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 203 Survey of Biochemistry
3 cr.
A foundational course in the chemical makeup and metabolic processes of living organisms. Consists of lectures and may also include discussions and demonstrations.
Prerequisites: A grade of C- or better in CGS CHE 125 or C- or better in CGS CHE 145 with cons. instr. or cons. instr.
Course Rules: Together CGS CHE 125 and CGS CHE 203 constitute a year course with emphasis on organic and biological chemistry. A student may not earn more than four credits by taking CGS CHE 203/211 and CGS CHE 204, or CGS CHE 204 and CGS CHE 250. A student may not earn more than three credits by taking CGS CHE 203 and CGS CHE 250.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 204 Applied Survey of Biochemistry
5 cr.
A foundational course in the chemical makeup and metabolic processes of living organisms. Consists of lectures and laboratories and may also include discussions and demonstrations.
Prerequisites: A grade of C- or better in CHE 125 or C- or better in CHE 145 with consent of instructor; or consent of instructor.
Course Rules: Together CHE 125 and CHE 204 constitute a year course with emphasis on organic and biological chemistry. CHE 204 is equivalent to the combination of CHE 203 and CHE 211. A student may not earn more than four credits by taking CHE 203/211 and CHE 204, or CHE 204 and CHE 250. A student may not earn more than three credits by taking CHE 203 and CHE 250.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 214 Physiological Chemistry
3 cr.
Lectures and demonstrations on elementary aspects of organic and physiological chemistry. Covers topics typical of a biochemistry course such as biological molecules, metabolism, nutrition, protein function, and molecular biology. For students interested in physical therapy who have not had CGS CHE 343 or CGS CHE 363.
Prerequisites: A grade of C- or better in CGS CHE 125 or C- or better in CGS CHE 145 with cons. instr. or cons. instr.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 250 Review and Updates in Chemistry and Biochemistry
3 cr.
This course was designed specifically for the nursing consortium and is to be taken primarily by RNs already accepted into their BSN degree completion program.
Prerequisites: none.
Course Rules: This course is not a substitute for the CGS CHE 125/CGS CHE 203 sequence required of students at the beginning of their academic careers, even if planning to enter the nursing profession. CGS CHE 250 begins with a review of relevant topics in chemistry, both general and organic, and then covers topics typical of a biochemistry course such as biological molecules, metabolism, nutrition, protein function, and molecular biology. A student may not earn more than four credits by taking CGS CHE 203/CGS CHE 211 and CGS CHE 204, or CGS CHE 204/CGS CHE 250. A student may not earn more than three credits by taking CGS CHE 203/CGS CHE 250.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 299 Independent Study in Chemistry
1-3 cr.
Independent study in Chemistry.
Prerequisites: consent of instructor.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 343 Organic Chemistry I
3 cr.
The first semester of a year course in organic chemistry. Consists of lectures and may also include discussions and demonstrations.
Prerequisites: a grade of C- or better in CGS CHE 155 or cons. instr.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 351 Organic Chemistry Laboratory Part I
1 cr.
Three to four hours of laboratory per week. The first semester of a year course in organic chemistry laboratory.
Prerequisites: CGS CHE 343 or concurrent enrollment.
Course Rules: A student may not earn more than 2 credits by taking CGS CHE 351, CGS CHE 352 and CGS CHE 361.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS CHE 352 Organic Chemistry Laboratory
2 cr.
Basic laboratory techniques for organic chemistry including commonly used synthetic methods, purification and characterization of reaction products. Six to eight hours of laboratory per week.
Prerequisites: A grade of C- or better in CHE 343 or cons. instr.
Course Rules: CHE 352 is equivalent to the combination of CHE 351 and CHE 361. A student may not earn more than two credits by taking CHE 351, CHE 352 and CHE 361. Recommended: A grade of C- or better in CHE 363 or concurrent registration.
General Education Requirements: NS+
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 351 Organic Chemistry Laboratory Part II
1 cr.
Three to four hours of laboratory per week; second semester of a year course in organic chemistry laboratory.
Prerequisites: A grade of C- or better in CHE 351 or consent of instructor.
Course Rules: A student may not earn more than two credits by taking CHE 351, CHE 352 and CHE 361.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CHE 363 Organic Chemistry II
3 cr. Undergraduate.
Continuation of Organic Chemistry I. Consists of lectures and may also include discussions and demonstrations.
Prerequisites: A grade of C- or better in CHE 343 or cons. instr. NS; if combined with CHE 361 or CHE 352, also LS
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Communication Arts & Theatre (CGS CTA)

CGS CTA 101 Introduction to Interpersonal Communication
3 cr.
Introduction to communication theory. Topics studied include perception, listening, nonverbal communication, language, and conflict management.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 103 Introduction to Public Speaking
3 cr.
Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 104 Applied Journalism
1-3 cr.
Students are given the opportunity to gain practical experience in journalistic concepts and techniques through work on available campus media outlets.
Prerequisites: none.
General Education Requirements: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 115 Introduction to Business and Professional Communication
3 cr.
An introduction to the principles of effective communication in business and professional settings. Topics studied include organizational culture, diversity, listening, verbal and nonverbal messages, conflict and negotiation, interviewing, communication networks and channels, teambuilding, and presentations.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 130 Introduction to Theatre
3 cr.
A study of the development of theatre as an art form. Emphasis is on the role of the audience and the understanding and appreciation of the nature of theatre, important plays, dramatic styles, and elements of a theatrical production.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 131 Theatre Laboratory
1 cr.
Participation in theatrical production activities including directing, stage management, technical production, lighting, stage design, costuming, make-up, acting, and theatre management.
Prerequisites: It is possible to register in more than one section with cons. instr. Section 1: Acting; Section 2: Technical Production; Section 3: Theatre Management.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 132 Media Production
3 cr.
Study of the design, production, and distribution of electronic media. Students will gain practical experience in various media production settings.
Prerequisites: none.
General Education Requirements: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 133 Theatre Production
3 cr.
Participation in theatrical production activities including directing, stage management, technical production, lighting, stage design, costuming, make-up, acting, and theatre management.
Prerequisites: It is possible to register in more than one section with cons. instr. Section 1: Acting; Section 2: Technical Production; Section 3: Theatre Management.
General Education Requirements: A
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 150 Introduction to Film
3 cr.
Study of the history and development of film as a distinctive medium of communication, an art form and an industry. Students will be introduced to a wide range of theoretical perspectives that have been applied to film in academic settings; these will include but are not limited to such concepts as narrative, genre, 'mise en scene', and star image.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/
CGS CTA 201 Introduction to Mass Communication
3 cr.
A survey course examining print, electronic and persuasive media from a historical and theoretical perspective. Media discussed include newspapers, magazines, books, radio, television, public relations, advertising and the Internet.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 210 Introduction to Intercultural Communication
3 cr.
An overview of how people communicate with people from other cultures. Communication behavior both verbal and nonverbal will be examined to determine their role in other cultures. Students will learn to communicate more competently with people from other cultures and ethnic groups.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 218 Popular Culture in the Media
3 cr.
An introduction to the analysis and interpretation of Popular Culture as an academic discipline. The class will examine forms of advertisement and entertainment including print and TV ads, films, television, music, and music videos.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 232 Introduction to Acting
3 cr.
A studio introduction to the foundational techniques of acting, including the actor’s vocabulary and performance tools. Improvisation, performance exercises, and scene work used to develop freedom of self-expression and truthful communication skills.
Prerequisites: none
General Education Requirements: A
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 294 Internship in Communication and Theatre Arts
1-3 cr.
The Internship Programs course will provide students with an opportunity to apply knowledge and skills learned in Communication and Theatre Arts courses to professional and/or community-based situations at off-campus institutions. Students will prepare for the field work opportunity with appropriate texts provided by the faculty supervisor and schedule regular meetings with the faculty supervisor to evaluate progress. A detailed work journal and final paper reflecting on the academic relevance of the fieldwork are required. At the end of the semester, the professor will evaluate the student’s experience based on the work journal and final paper and assign a letter grade in consultation with the organization supervisor.
Prerequisites: A minimum of 12 completed course credits and at least 2.5 GPA at date of enrollment.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 298 Topics in Speech and Dramatic Arts
1-3 cr.
The nature and subject of this course will be announced in the course schedule.
Prerequisites: May be determined by instructor.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CTA 299 Independent Studies
1-3 cr.
Readings, reports, papers, or projects to be determined by the individual instructor.
Prerequisites: Introductory CTA course and consent of instructor.
Course Rules: Repeatable.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Computer Science (CGS CPS)

CGS CPS 103 Computer Fundamentals
1 cr.
An overview of computers, what they are and how they work. Typical topics include history, hardware, programming languages and operating systems, application software, communications, career opportunities and ethical issues. Also included is an introduction to the campus computing network.
Prerequisites: none.
Course Rules: Students may not receive credit for both CPS 103 and CPS 110.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 105 Computer Applications
1-3 cr.
Principles and use of computer applications including word processors, spreadsheets, and data bases. May also cover other applications such as telecommunications, graphics, statistics, simulations, or CAI. Does not include teaching of programming.
Prerequisites: none.
Course Rules: Students may not receive credit for both CPS 105 and any of CPS 106, CPS 107, CPS 108. Course may not be taken more than once for degree credit.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 106 Word Processing and Presentation Concepts
1 cr.
Text entry, editing, manipulation, and presentation. Covers typical as well as many advanced procedures of word processing and presentation software. This course involves extensive hands-on experience. Students may not receive credit for both CPS 106 and CPS 105.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/
CGS CPS 107 Spreadsheet Concepts
1 cr.
Typical features and application of electronic spreadsheets. This course involves extensive hands-on experience. Students may not receive credit for both CPS 107 and CPS 105.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 108 Database Concepts
1 cr.
Creation of data files and data manipulation editing, sorting, deleting, etc.. Report definition and generation. Accessing and searching of remote data bases. Includes extensive hands-on experience.
Prerequisites: none.
Course Rules: Students may not receive credit for both CPS 108 and CPS 105.

CGS CPS 110 Introduction to Computer Science BASIC
3 cr.
How computers work, communicating with computers, areas of application and significance, simple Algebraic Language programming, elementary data processing and problem solving. Instruction and significant experience in BASIC.
Prerequisites: MAT 105 or cons. instr.
Course Rules: Students may not receive credit for both CPS 110 and either of CPS 103 or CPS 130.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 130 Introduction to Programming BASIC
1-2 cr.
The basics of programming in BASIC for beginners. Introductory information on editing, program structure, data types, input, output, calculating, looping and selection. Short programs will be written and tested on a computer.
Prerequisites: CPS MAT 105 or cons. instr.
Course Rules: Students may not receive credit for both CGS CPS 130 and CGS CPS 110.

CGS CPS 245 Computer Science I: Object-Oriented Programming
4 cr.
Introduces the fundamental concepts of programming from an object-oriented perspective. Topics include simple data types, control structures, an introduction to array and string data structures and algorithms, text and binary files, as well as the social implications of computing. The course emphasizes developing fundamental programming skills in the context of a language that supports the object-oriented paradigm.
Prerequisites: CGS CPS 105 or consent of instructor.
General Education Requirements: MS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 255 Computer Science II: Objects and Data Abstraction
3 cr.
Continues the introduction from CPS 245 to the methodology of programming from an object-oriented perspective. Through the study of object design, this course also introduces the basics of human-computer interfaces, graphics, and the implementation of fundamental data structures including lists, stacks, and queues. The course includes a significant software development project, with an emphasis on software engineering principles and debugging techniques.
Prerequisites: CPS 245 and MAT 110.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 260 Programming in Assembly Language
3 cr.
An introduction to microcomputer assembly language programming and architecture for students with previous exposure to a high level language. Topics typically include machine instruction sets, interrupts, Boolean logic, binary coding of numeric and alphanumeric data, arrays and input/output. Optional topics may include file access, macros, graphics and mixed language programming.
Prerequisites: CPS 110, CPS 130, CPS 216, or CPS 245, or cons. instr.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS CPS 294 Internship in Computer Science
1-3 cr.
Internship or service learning project partnering students with organizations in the community or on campus. Practical experience appropriate to the student's educational goals by applying knowledge and skills learned in previous CPS courses in our institution. Student and instructor should meet regularly to prepare for and evaluate experiences. This course should not be used to employ students as campus workers by substituting credit for wages.
Prerequisites: at least four credits of prior CGS CPS coursework and consent of instructor.
Course Rules: Repeatable for a maximum of six credits.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/
CGS Economics (CGS ECO)

CGS ECO 101 Intro to Economics
3 cr.
A study of economic systems and their interdependence in the global economy, with emphasis on problems and policies. Among the subjects included are competitive and non-competitive markets, gross domestic product determination and policy, the U.S. financial system, and global trade.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ECO 203 Economics - Macro
3 cr.
Macro analysis, including national income, commercial banking, business fluctuations, monetary and fiscal policies, and economic growth. Designed for students who desire a basic one-year course with CGS ECO 204 in economics.
Prerequisites: CGS MAT 105 and CGS ENG 101 or consent of instructor.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ECO 204 Economics - Micro
3 cr.
Emphasizes the micro economic approach concerning households, firms, and market structures with a focus on price determination and distribution of income. Foreign trade and international financial institutions are included.
Prerequisites: none. CGS MAT 105 and CGS ENG 101 or cons. instr. recommended.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ECO 243 Economic and Business Statistics
3 cr.
Elementary theory and business application of statistical techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares.
Prerequisites: A grade of C or better in CGS MAT 105 or CGS MAT 108 or equivalent.
Course Rules: CGS BUS 243 and CGS ECO 243 are the same course.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Education (CGS EDU)

CGS EDU 201 Concepts, Issues, and Field Experience in Education
3 cr.
Classroom discussion 2 hrs/wk related to student-teacher-school-community interactions, including developmental aspects, sociocultural influences, and human relations. Off-campus experience at an educational institution 4 hrs/wk usually required; may vary with DPI/4-year campus requirements.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EDU 220 Education in a Pluralistic Society
3 cr.
Prepares students to be competent teachers in a pluralistic society. Explores current theory and research on: immigration, poverty, issues particular to Native Americans, African Americans, Hispanic Americans and other culture/ethnic groups, exceptionality, sexual orientation, religion and other special interest groups.
Prerequisites: none.
Course Rules: Students in this course will have contact with students, colleagues, parents, and agencies representing different cultures, ethnicities and alternative lifestyles. The knowledge base and rationale for this course is specified in the Wisconsin Department of Public Instruction PI 34.15 4 and 118.19 statutory requirements for Teacher Education and Licensing.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EDU 230 Educational Psychology
3-4 cr.
Developmental process in children in the context of psychological principles of teaching and learning. Emphasis will be placed on understanding the social, emotional, physical, and intellectual development of children and adolescents.
Prerequisites: a grade of C- or better in one of the following: CGS PSY 201(P), CGS PSY 202(P), or CGS EDU 201(P); or consent of instructor.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
CGS EDU 300 The Exceptional Individual  
3 cr.  
The Exceptional Individual: The purpose of this course is to educate and prepare students to understand and work with individuals with disabilities within schools by providing accurate information about disabilities and current best practices in education. Emphasis will be placed on understanding historical, legal, and philosophical frameworks; defining categories of disability; describing legal and ethical perspectives; how issues of accessibility in educational and social arenas affect people with disabilities; learning the role disability plays in the lives of families; becoming familiar with label criteria for disabilities; and the examination of how the referral/placement processes can either discriminate against marginalized populations or facilitate inclusion.  
Prerequisites: CGS PSY 201 or CGS PSY 202 with a grade of C- or better or cons. instr.; CGS EDU 201 and either CGS PSY 250 or CGS PSY 360 recommended.  
General Education Requirements: SS  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Engineering (CGS EGR)  

CGS EGR 103 Engineering Spreadsheet Tools  
0-1 cr.  
Fundamental spreadsheet tools for use in engineering schooling and future career. Introduction to computers, flow charts, spreadsheets, functions, graphics, curve fitting, logical statements, statistical analysis, unit conversion, and other data analysis techniques.  
Prerequisites: Students may not receive credit for both CGS EGR 103 and CGS EGR 105. Students who complete both CGS EGR 102 and CGS EGR 103 will receive the AP/IS designation of CGS EGR 105.  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 105 Engineering Fundamentals  
3 cr.  
This course is designed to equip engineering students with the necessary tools and background information to prepare them to be successful engineering students as well as a successful practicing engineer. Topics covered in this course include project management, team work, technical writing, working with data and using spreadsheets, creating presentations, engineering design, and a thorough understanding of the engineering profession. A student may not receive credit for CGS EGR 100 or CGS EGR 102 or CGS EGR 103 and CGS EGR 105.  
Prerequisites: CGS MAT 105 or concurrent enrollment.  
General Education Requirements: AP, IS  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 110 Engineering Graphics with Computer Aided Drafting  
3 cr.  
Graphical communication, descriptive geometry elements, visualization, engineering drawing techniques, orthographic projection, pictorial representation, auxiliary views, section views, and basic dimensioning. The course incorporates computer aided drafting CAD with engineering applications using 2-D drawing and 3-D modeling techniques.  
Prerequisites: none.  
Course Rules: Previously CGS GRA 110.  
General Education Requirements: AP  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 110X Engineering Graphics with Computer Aided Drafting  
3 cr.  
Graphical communication, descriptive geometry elements, visualization, engineering drawing techniques, orthographic projection, pictorial representation, auxiliary views, section views, and basic dimensioning. The course incorporates computer aided drafting CAD with engineering applications using 2-D drawing and 3-D modeling techniques.  
Prerequisites: none.  
Course Rules: Previously CGS GRA 110.  
General Education Requirements: AP  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 111 Solid Modeling and Design  
1 cr.  
This project-based course introduces students to reverse engineering and three-dimensional design using industry standard solid modeling software SolidWorks. The course assumes some previous knowledge of solid modeling, such as would typically be gained in an introductory engineering graphics and computer aided drafting course. This course will include one or more reverse engineering projects that will require the students application of engineering problem skills.  
Prerequisites: none.  
General Education Requirements: AP  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 201 Statics  
3 cr.  
Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. The course will serve the requirements of the several engineering curricula.  
Prerequisites: C or better in CGS MAT 221 or cons instr.  
Course Rules: Previously MEC 201.  
General Education Requirements: NS  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 202 Dynamics  
3 cr.  
Kinematics, force-mass-acceleration relations, work and energy, impulse and momentum, and moments of inertia of mass. This course will serve the requirements of the several engineering curricula.  
Prerequisites: C- or better in CGS EGR 201 and C or better in CGS MAT 222; or consent of instructor.  
General Education Requirements: NS  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 203 Mechanics of Materials  
3-5 cr.  
Stress and strain, torsion, bending of beams, compound stresses, principal stresses, deflection of beams, statically indeterminate members, columns, elastic buckling, fatigue, creep, impact, and concrete properties.  
Prerequisites: Grade of C or better in CGS EGR 201 or consent of instructor.  
General Education Requirements: NS  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/
CGS EGR 263 Engineering Thermodynamics
3 cr.
First and second laws of thermodynamics; thermodynamic properties of real and ideal gases, vapors, and mixtures; analysis of power and refrigeration cycles.
Prerequisites: CGS CHE 145 or CGS CHE 165 or CGS PHY 201 or CGS EGR 202, and CGS MAT 223 or CGS MAT 234 or concurrent enrollment, or cons. instr.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 282 Engineering Economics
3 cr.
Economic and financial factors in the engineering environment to be considered in managerial decision making. Emphasizes the time value of money, present worth analysis, uniform series, rate of return, benefit cost ratios, depreciation, income taxes, inflation.
Prerequisites: CGS MAT 110, CGS EGR 105 or CGS EGR 103 or CGS CPS 107 or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS EGR 291 Special Topics in Engineering
1-3 cr.
In-depth coverage of one or more topics in engineering, engineering graphics, or engineering mechanics not covered by an existing course. Topics related to current issues or new technology are particularly appropriate.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS English (CGS ENG)

CGS ENG 97 TRIO Introduction to College Writing
0 cr.
A composition course focusing on the conventions of academic writing, the composing process, critical thinking, and critical reading. Reading and writing activities designed to prepare students for successful transition to college-level writing.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 98 Introduction to College Writing
0 cr.
A composition course focusing on the conventions of academic writing, the composing process, critical thinking, and critical reading. Emphasis will be on reading and writing activities designed to prepare students for successful transition to college-level writing.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 99 Writing Studio
0 cr.
A small group and individualized instruction course that helps students develop college-level writing and critical reading skills. Emphasizes writing process strategies. Taken concurrently with a composition course or another writing-intensive class.
Prerequisites: none.
Course Rules: Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 101 College Writing and Critical Reading
3 cr.
A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings.
Prerequisites: A grade of C or better in a basic writing course CGS ENG 97, CGS ENG 98, or CGS LEA 106 when taken as a three-credit course or exemption through a sufficiently high placement assessment.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 102 Critical Writing, Reading, and Research
3 cr.
A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading.
Prerequisites: A grade of C or better in CGS ENG 101 or exemption from CGS ENG 101 through a sufficiently high placement assessment; and a grade of C or better in CGS LEA 101 or exemption from CGS LEA 101 through a sufficiently high placement assessment.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 201 Intermediate Composition
3 cr.
A composition course that builds on learning from first-year college writing to help students develop more advanced reading, writing, and research strategies and skills. Introduces students to key concepts in the field of writing studies and their application to the writing process. Emphasizes independent inquiry, critical reading, and rhetorical adaptability.
Prerequisites: Completion of ENG 102 with a grade of C or higher, completion of the first-year writing requirement at a UW System institution, or successful completion of the ENG 102 exemption process.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 202 Writing about Literature
3 cr.
Studying and writing about various types of literature. Helps students develop the ability to write critical, analytical, and explication papers about literature.
Prerequisites: CGS ENG 102, or exemption based on placement test score, or cons instr.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/
CGS ENG 203 Creative Writing I
3 cr.
Chiefly devoted to writing and studying one or more of the following: fiction, poetry and drama.
Prerequisites: Exemption from ENG 101 through a sufficiently high placement assessment, or completion of ENG 101, or cons. instr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 204 Creative Writing II
3 cr.
Chiefly devoted to writing and studying one or more of the following: fiction, poetry and drama. A continuation of CGS ENG 203.
Prerequisites: CGS ENG 102 and CGS ENG 203, or cons. instr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 205 Literary Magazines
1-3 cr.
A study of contemporary literary magazines, including national and student publications produced in print and online, resulting in students collaborating to produce their own literary publications.
Prerequisites: CGS ENG 101 or consent of instructor.
Course Rules: May be taken for credit more than once.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 210 Business Communication
3 cr.
Study and practice of the techniques of achieving clarity, brevity and effectiveness in business communication. Planning, preparation, critiquing of business letters, memoranda, short and long reports, resumes, manuals of procedure, and oral reports.
Prerequisites: CGS ENG 102 or cons instr.
Course Rules: CGS BUS 210 and CGS ENG 210 are the same course; they count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 250 Introduction to Literary Studies
3 cr.
An introduction to the discipline of literary studies through its fundamental approaches to reading, interpreting, and writing about a variety of texts, ranging from the classic to the contemporary with the goal of understanding, appreciating, and enjoying literature.
Prerequisites: Exemption from CGS ENG 098 based on placement test score or completion of CGS ENG 098 or cons. instr.
General Education Requirements: HU
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 251 Introduction to Drama
3 cr.
Intensive analysis of dramatic literature using representative types from several periods of drama.
Prerequisites: Exemption from CGS ENG 98 based on placement test score or completion of CGS ENG 98 or consent of instructor.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 253 Introduction to the Short Story and the Novel
3 cr.
Intensive analysis of fiction using representative types from several periods of narrative literature.
Prerequisites: Exemption from ENG 098 based on placement test score or completion of CGS ENG 098 or cons. instr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 261 British Literature II
3 cr.
A study of the development of British literature after 1798 through a survey of significant poetry, drama, fiction, and/or nonfiction.
Prerequisites: Exemption from CGS ENG 101 based on placement test score or ENG 101 or consent of instructor.
Course Rules: Not open to students with credit in CGS ENG 270.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 263 American Literature II
3 cr.
UW COLLEGE COURSES ONLINE ONLY. A study of the development of American literature after 1865 through a survey of significant poetry, fiction, and nonfiction. Not open to students with credit in CGS ENG 272. Prereq: Exemption from 101 based on placement test score or CGS ENG 101 or cons. instr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 271 Children's Literature
3 cr.
A survey of literature for children focused on techniques of literary study, social contexts of literature, new developments in the field of study, and criteria for evaluating the quality of fiction and novels, picture books, fairy tales, nonfiction texts, poetry, and plays. Recommended for students who have achieved sophomore standing.
Prerequisites: Exemption from CGS ENG 101 based on English placement test score or CGS ENG 101 or cons instr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 272 American Literature
3 cr.
A study of the nature of American literature through a survey of significant poetry, drama, fiction, and/or nonfiction by major American authors.
Prerequisites: Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.
Course Rules: Not open to students with credit in ENG 262 or 263.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
CGS ENG 273 Studies in International Literature
3 cr.
A study of notable authors from a variety of regions and eras, ranging from non-Western traditions such as the Indian, Arabic, West African, Chinese, Japanese and/or Native American to Western traditions such as the Greek, Scandinavian, French, Russian, Australian, and/or Latin American. Content and focus will vary according to instructor.
Prerequisites: Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.
Course Rules: Not open to students with credit in ENG 268 or ENG 269.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 275 Twentieth Century Novels of the World
3 cr.
The twentieth century novel in a number of countries usually excluding American and European novels. Explores the cultures of those countries as they are reflected in the novels.
Prerequisites: Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or consent of instructor.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 277 Film Studies
3 cr.
An exploration of some aspect, theory, problem, or distinctive variety of film, particularly narrative film. Emphasis may be upon the history of a genre, a single artist, or the distinctive character of the medium in comparison to drama or narrative fiction.
Prerequisites: Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.
Course Rules: May be taken for credit more than once if content changes.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 278 Multicultural Literature in America (ES)
3 cr.
A study of ethnic literatures in America, chiefly African American, Asian American, Native American, and/or Latino, though not necessarily limited to these groups. May be taken for credit more than once if content changes.
Prerequisites: Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or cons. instr.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 279 Women Writers
3 cr.
A study of women writers through a survey of significant poetry, drama, fiction, nonfiction, and/or film.
Prerequisites: Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or cons. instr.
Course Rules: CGS ENG 279 and CGS GSW 279 are the same course. May be taken for credit more than once if content changes.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 280 Introduction to Shakespeare
3 cr.
A study of selected plays and sonnets.
Prerequisites: Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 281 A Theme in Literature:
3 cr.
This theme varies from time to time and may be, for example, philosophical, social, political, or psychological.
Prerequisites: Exemption from CGS ENG 101 based on test placement score or CGS ENG 101 or consent of instructor.
Course Rules: Repeatable with change in topic to 9 credits max.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 282 African American Literature
3 cr.
A study of African American literature, history, and culture through the survey of significant poetry, fiction, drama, non-fiction, and/or film.
Prerequisites: Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or consent of instructor.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 284 Science Fiction and/or Fantasy Literature
3 cr.
A study of texts e.g., fiction, nonfiction, poetry, drama, film that speculate on alternative futures or worlds.
Prerequisites: Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 285 Literature of Nature
3 cr.
A study of texts characterizing the natural world as experienced primarily by American writers of the 19th and 20th centuries.
Prerequisites: Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or cons. instr.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 286 Literature of the Environment
3 cr.
A study of the environment as it is experienced by American writers of the 19th and 20th centuries.
Prerequisites: Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or cons. instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 290 Special Topics:
1-3 cr.
Designed to cover topics which cannot be accommodated in usual course format or by other courses. Topics, which will be specified in the campus schedule, could include the study of a literary subgenre, the literature surrounding a specific historical event, or the construction of a campus newspaper or literary magazine. May be taken for credit more than once if content changes.
Prerequisites: Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or cons. instr.*
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS ENG 291 Writing Tutor Seminar
1-3 cr.
An introduction to composition theory and practice with an emphasis on writing center studies and peer tutoring. Taken prior to or concurrently with college peer tutoring work, an experience tutoring writers in other settings, or a related writing studies internship.
Prerequisites: Completion of CGS ENG 102 with a grade of B or higher; or successful completion of the core writing requirement exemption process; or completion of CGS ENG 102 with a grade of C or higher and cons. instr.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 299 Independent Study
1-3 cr.
Individual student program must be approved by the English Department chair. May be taken for credit more than once if content changes.
Prerequisites: consent of instructor.
Course Rules: Repeatable.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS ENG 305 Literature in Communities
3 cr.
This course allows upper division/BAAS students the opportunity to participate in developing local or regional literary outreach events, programs, and publications. Students in CGS ENG 305 may serve in a variety of roles, such as literary editor, creative writing workshop facilitator, or event planner, in implementing service-learning projects at local schools, libraries, or other venues. The course will explore the role of literary centers and programs, and small press, journal, and Web publications in creating and sustaining communities, as well as the role literary forms such as stories, memoirs, and poetry play in the lives of individuals and communities. Students will develop and apply critical reading skills and aesthetic criteria in the evaluation of quality literary writing.
Prerequisites: Junior standing or consent of instructor
Current Offerings: https://catalog.uwm.edu/course-search/

CGS French (CGS FRE)

CGS FRE 101 First Semester French
4 cr.
For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in French. Classes also may include cultural studies of France and other French-speaking countries. Field trip may be required.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS FRE 201 Third Semester French
4 cr.
This course stresses the further development and practice of speaking, reading, writing, and listening for students who have had prior experience with the language. This course emphasizes the study of customs, traditions and ideas frequently associated with French-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in French-speaking regions. Field Trip may be required.
Prerequisites: CGS FRE 102 or requisite placement test score or cons. instr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Gender, Sexuality, and Women's Studies (CGS GSW)

CGS GSW 101 Introduction to Gender, Sexuality, and Women's Studies
3 cr.
An introduction to the major issues addressed by women's and gender studies with an emphasis on interdisciplinary social science theories and methodologies involved in gaining accurate knowledge about women's lives and contributions to society, in the US and around the world. Perspectives, texts, and methodologies from across the social science disciplines ranging from history, economics, sociology, political science, public health, criminal justice, psychology, and others will be used to understand the experience of women and the cultural construction of gender.
Prerequisites: none.
General Education Requirements: IS, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 102 Women's Voices
3 cr.
An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives.
Prerequisites: none.
General Education Requirements: HU, IS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS GSW 201 Introduction to LGBTQ Studies
3 cr.
Central concepts of sexual orientation and gender identity work within history, politics, literature, technology, art, music, philosophy, education, and psychology; intersectional dynamics of privilege and oppression as they relate to LGBTQ individuals and culture by exploring the lived experiences of LGBTQ individuals and their families.
Prerequisites: Completion of, placement into, or concurrent enrollment in CGS ENG 102.
General Education Requirements: HU, IS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 202 Feminist Philosophy
3 cr.
An introduction to feminist philosophies through a study and critique of traditional and feminist views about women, their lives, society, and knowledge, with particular attention to theories of women’s oppression.
Prerequisites: none.
Course Rules: CGS PHI 202 and CGS GSW 202 are the same course.
General Education Requirements: HU
Last Taught: Summer 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 203 Women in Popular Culture
3 cr.
In this course, we will examine ways gender has been portrayed and are currently portrayed in the media, in television and movies, popular music, internet, print sources like magazines, popular fiction, and newspapers, and other cultural artifacts. With readings ranging from critical theory to popular fiction, we will speculate on the impact of and source for popular portrayals of women in particular and the social construction of gender, race, and other social categories. The course will also encourage students to question agency in the creation and consumption of mass culture. Issues of race, class, sexual orientation, age, and physical ability will be important as we explore and critically examine the forms and functions of popular culture.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 204 Introduction to Masculinities
3 cr.
Central concepts of masculinity work within history, politics, literature, technology, art, music, philosophy, education, and psychology. Students will work towards a deep understanding of the intersectional dynamics of race, gender, class, and other aspects of identity as they relate to the construction of various masculinities.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 210 Women’s Health & Sexuality in Society
3 cr.
This course will offer basic facts about the structure and functioning of the female body; issues in women’s health and sexuality will be approached interdisciplinarily and will include physical, mental, emotional, and social health and wellness topics and will be framed by discussions of race, class, and other cultural identities. Cultural, social, economic and political contexts will be explored.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 231 Sex, Power and Public Policy
3 cr.
Examination of controversial issues of gender that affect equality and power. Includes women’s movement and the search for equality, justice and freedom. Examines political and judicial policies that exemplify success and failure.
Prerequisites: none.
Course Rules: CGS POL 231 and CGS GSW 231 are the same course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GSW 279 Women Writers
3 cr.
A study of women writers through a survey of significant poetry, drama, fiction, nonfiction, and/or film.
Prerequisites: Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or cons. instr.
Course Rules: CGS ENG 279 and CGS GSW 279 are the same course. May be taken for credit more than once if content changes.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Geography (CGS GEO)

CGS GEO 101 Introduction to Cultural Geography
3 cr.
A survey of world patterns of culture, such as population, language, religion, urban and rural settlement, and their causal relationships, emphasizing the global diversity of world cultures, contrasting world views and the issues thus raised.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 102 Roots and Diversity (ES)
3 cr.
The geography of American ethnic minority groups. An introduction to ethnic geography that examines the experience of people of African, Asian, Hispanic, and Native heritage in the United States and Canada. These ethnic minorities are studied using the major themes of cultural geography such as spatial distribution, migration patterns and locational patterns.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS GEO 110 World Regional Geography
3 cr.
Introduction to cultural geography through the study of representative and significant world regions. Examples will compare and contrast present and potential ethnic, social, political, and environmental problems across select regions of the world, and explore basic solutions.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 123 Physical Geography: Weather and Climate
4-5 cr.
Study of earth's atmospheric elements in both the short term weather events and long term climate and climate change. Two or four hours of lab per week depending on the credit. Field trips may be required.
Prerequisites: none.
Course Rules: May not be taken for credit by students who have completed CGS GEO 120 or CGS GEO 125.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 124 Physical Geography: Landforms
4-5 cr.
Study of the evolution and distribution of Earth's surface features landforms and physical landscapes along with the processes shaping them. Study covers plate tectonics, volcanoes, faults, rivers and river flow, glaciers, beaches, dunes, landslides, etc. Two or four hours of lab per week depending on the credit. Field trips may be required.
Prerequisites: none.
Course Rules: May not be taken for credit by students who have had GEO 120 or GEO 125.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 125 Physical Geography
4-5 cr.
The geography of Earth's physical characteristics, including weather and climate, climate types, water, soils, Earth materials, landforms, and Earth resources; study of the processes and interactions creating Earth's physical geographic patterns. Two or four hours of lab per week depending on the credit. Field trips may be required.
Prerequisites: none.
Course Rules: May not be taken for credit by students who have had GEO 120, GEO 123 or GEO 124.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 130 Human Impact on the Environment
3-4 cr.
A natural science course describing the alteration of the physical environment with the resulting effects on air, water, soils, vegetation, animal life and humans. Field trips may be required. Meets DPI requirements for environmental education at some UW baccalaureate institutions.
Prerequisites: none.
Course Rules: If 4 cr, also LS with lab work.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 170 Disasters-Living on the Edge
3-4 cr.
Study of various environmental hazards, their causes, impacts on humans, and mitigations.
Prerequisites: none.
Course Rules: CGS GEO 170 and CGS GLG 170 are jointly offered and count as repeats of one another. NS if 3 credits; NS & LS if 4 credits. LS will include lab work.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 299 Independent Study
1-3 cr.
Individual study under the supervision of an instructor. May be taken more than once for credit if topics are different.
Prerequisites: consent of instructor.
Course Rules: Repeatable.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GEO 350 Environmental Conservation
3 cr.
Study of the human use, conservation, and management of the Earth's resources; ecosystems; human interactions with the environment; human population growth; impact of technology on the environment; and practical solutions to environmental problems. Field trips may be required. Prereq: One semester of college work or consent of instructor. GEO 350 meets DPI requirements for environmental education at some UW baccalaureate institutions.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Geology (CGS GLG)

CGS GLG 100 Introduction to Geology
3 cr.
A brief study of minerals, rocks, fossils, geologic maps, and the processes creating and modifying the surface and subsurface features of earth. Field trips may be required.
Prerequisites: none.
Course Rules: May not be taken for credit by students who have had CGS GLG 101.
General Education Requirements: NS
Last Taught: Summer 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS GLG 101 Physical Geology
4-5 cr.
Study of the physical nature of Earth: the processes in operation above, on and beneath the surface that continue to shape its physical evolution e.g. volcanism, plate tectonics, faulting and earthquakes, glaciation, rivers; the origin and nature of common minerals and rocks and their distribution in the world; landscapes and their origins e.g. mountain ranges, glacial forms, river valleys, etc.. Lab work includes the study of rocks and minerals, the interpretation of geological and topographic maps and aerial photographs, along with data, map and chart analysis. Two or four hours of lab per week depending on the credit. Field trips may be required.
Prerequisites: none.
Course Rules: May not be taken for credit by students who have had CGS GLG 100.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GLG 102 Historical Geology
4-5 cr.
Study of the history of the Earth, beginning with its place in the solar system. An introduction to common rocks and minerals, to geological principles and reasoning, and to concepts of geologic time. Study of how the physical geography of Earth has changed through time and how the changes in the rock record tell of seas, mountain ranges, deserts, and ice ages through geologic time. Study of the fossil record and how life on Earth has changed to cope with the varying physical environments of Earth. Two or four hours of lab per week depending on the credit. Field trips may be required.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GLG 135 Introduction to Environmental Geology
3 cr.
The physical environment and our interaction with it. Emphasis on Earth processes affecting humans, such as flooding, erosion, groundwater, landslides, and earthquakes. The impact of humans upon the environment along with the application of the science of geology to these impacts. Field trips may be required.
Prerequisites: none.
Course Rules: May not be taken for credit by students who have had GLG 135.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GLG 169 Environmental Geology
4-5 cr.
The physical environment and our interaction with it. Emphasis on earth processes affecting humans, such as flooding, erosion, groundwater, landslides and earthquakes. The impact of humans upon the environment along with the application of the science of geology to these impacts. Air, water and soil pollution studied from a physical-chemical standpoint. The depletion of energy and mineral resources and the need for humans to design with nature.
Prerequisites: none.
Course Rules: Two or four hours of lab per week depending on the credit. Field trips may be required. May not be taken for credit by students who have had GLG 135.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GER 101 First Semester German
4 cr.
For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in German. Classes also may include cultural studies of Germany and other German-speaking countries. Field trip may be required.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS GER 201 Third Semester German
4 cr.
This course stresses the further development and practice of speaking, reading, writing, and listening for students who have had prior experience with the language. This course emphasizes the study of customs, traditions and ideas frequently associated with German-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in German-speaking regions.
Prerequisites: CGS GER 201 or requisite placement test score or cons. of instr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
CGS Health and Exercise Sciences (CGS HES)

CGS HES 15 Lifetime Activity: Tai Chi
1 cr.
Lifetime activity courses are designed to provide a foundation for a healthy, physically active lifestyle. This course will teach and develop the basic fundamentals and movements of tai chi.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 19 Lifetime Activity: Weight Training
1 cr.
Lifetime activity courses are designed to provide a foundation for a healthy, physically active lifestyle. This course will teach basic concepts of weight training, focusing on muscular strength, endurance, or general fitness.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 37 Lifetime Activity: Martial Arts
1 cr.
Lifetime activity courses are designed to provide a foundation for a healthy, physically active lifestyle. This course will teach and develop the basic movements and techniques involved in self-defense.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 62 Intermediate Tai Chi
1 cr.
Prerequisites: Successful completion of CGS PED 015 Introduction to Tai Chi, or consent of instructor.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 101 Introduction to Public Health
3 cr.
Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education.
Prerequisites: none.
Course Rules: PH 101 and CGS HES 101 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 124 Alcohol and Other Drugs: Awareness, Alternatives
1 cr.
Content includes an overview of different classes and types of psychotropic drugs including alcohol, prescription drugs and illegal drugs and the risks associated with abuse of these substances. The impact of substance use/abuse on physical and emotional health, relationships, and productivity will also be discussed.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 127 Fitness for Life
3 cr.
A contemporary examination of the effects of lifestyle, wellness, and health promotion on the individual. Instruction in procedures for self-evaluation as well as individualization of exercise prescription for the development of fitness.
Prerequisites: none.
Course Rules: Participation in a planned program of aerobic activity and resistance training is required.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 190 Intercollegiate Athletics - Golf
1 cr.
Designed for students who participate in intercollegiate athletics, to develop skills and behaviors related to game strategies, sportsmanship, leadership, and team-building. Active membership on the intercollegiate team through the end of the season/semester is required.
Prerequisites: none.
Course Rules: Note: A student may take only one intercollegiate activity course per semester. Repeatable to 2 credits max.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 191 Intercollegiate Athletics - Soccer
1 cr.
Designed for students who participate in intercollegiate athletics, to develop skills and behaviors related to game strategies, sportsmanship, leadership, and team-building. Active membership on the intercollegiate team through the end of the season/semester is required.
Prerequisites: none.
Course Rules: A student may take only one intercollegiate activity course per semester. Repeatable to 2 credits max.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 192 Intercollegiate Athletics - Volleyball
1 cr.
Designed for students who participate in intercollegiate athletics, to develop skills and behaviors related to game strategies, sportsmanship, leadership, and team-building. Active membership on the intercollegiate team through the end of the season/semester is required.
Prerequisites: none.
Course Rules: A student may take only one intercollegiate activity course per semester. Repeatable to 2 credits max.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS HES 193 Intercollegiate Athletics - Basketball
1 cr.
Designed for students who participate in intercollegiate athletics, to develop skills and behaviors related to game strategies, sportsmanship, leadership, and team-building. Active membership on the intercollegiate team through the end of the season/semester is required.
Prerequisites: none.
Course Rules: A student may take only one intercollegiate activity course per semester. Repeatable to 2 credits max.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 194 Intercollegiate Athletics - Tennis
1 cr.
Designed for students who participate in intercollegiate athletics, to develop skills and behaviors related to game strategies, sportsmanship, leadership, and team-building. Active membership on the intercollegiate team through the end of the season/semester is required.
Prerequisites: none.
Course Rules: A student may take only one intercollegiate activity course per semester.
General Education Requirements: AP
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 204 Introduction to Physical Education, Exercise Science and Sport
3 cr.
An overview of physical education, exercise science and sport with a focus on the specialization areas and vocational opportunities offered in the various fields. Personal and professional qualifications in the fields of physical education and exercise science and sport will be examined, with an emphasis on establishing the role of physical education in society.
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 205 Athletic Injuries
2-3 cr.
This course will explore the assessment, treatment and prevention of common athletic injuries. The relationship of an athletic trainer to the field of sports medicine is explored. Practical taping techniques will be completed during class time. Course content includes anatomy/physiology and the principles of biomechanics. Students may enroll as either a 2-credit or 3-credit option.
Prerequisites: none.
Course Rules: Students enrolling in the 3-credit option are required to complete 15 hours field experience with a licensed athletic trainer.
General Education Requirements: AP
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 206 Personal Health and Wellness
3 cr.
This course will provide an in depth examination of the various aspects of health and wellness. Students will survey various aspects of health and wellness which affect both the individual and the community. Foundations of personal and community health, health and wellness and the dynamic interaction between psychological health, stress, nutrition, physical activity, weight management, drug use and abuse, healthy relationships, sexuality, infectious disease, and chronic disease throughout the lifespan will be integrated throughout the course.
Prerequisites: none.
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 209 Nutrition and Weight Management
3 cr.
Through the lens of the natural sciences, this course will examine the basic principles of nutrition, digestion, and metabolism. Students will interpret and analyze the effects of these principles on one’s diet, weight, fitness level, and overall health. Students will reflect upon the conclusions drawn from the data, with the goal of integrating healthy behaviors into their personal lifestyle.
Prerequisites: none.
General Education Requirements: none
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 210 Theory of Coaching
3 cr.
A thorough examination of the Theory and methodology of coaching both team and individual sports. Coaching psychology, philosophy, administrative responsibilities, skill assessment, practice/game organization, rules, fundamentals, and play of various sports will be explored through lecture, lab, and field experience. Students will execute analytical, practical, or creative tasks in relationship to complete assignments/projects. Part of their process will allow them to synthesize existing ideas or expertise in original ways.
Prerequisites: none.
General Education Requirements: none
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 213 First Aid for Emergencies
3 cr.
This course examines the causes, prevention and care of first aid emergencies. Procedures in CPR/AED and first aid will prepare the student for emergencies likely to be encountered in daily living. American Red Cross or American Heart Association in CPR/AED and First Aid certification can be earned.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 217 Social Aspects of Sport
3 cr.
A course focusing on sport institutions as social organizations and how they function within a culture. Emphasis is placed on group structure and membership, group pressure, socialization, stratification, and deviance as they apply to the sports’ setting. Selected interdisciplinary topics demonstrating the connections between sport and: media, business/ economy, gender, race/ethnicity, social class, politics, and religion.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)

CGS HES 224 Drugs, Behavior and Society
3 cr.
The course will explore alcohol and other drug use/abuse and its impact on human behavior and society. Information will be presented in a variety of contexts including pharmacological, behavioral historical, social, legal and clinical.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: [Link](https://catalog.uwm.edu/course-search/)
CGS HES 225 Advanced Concepts of Personal Training
3 cr.
This course is designed to prepare and qualify students to work as personal trainers. The course bridges the gap between exercise science related course work and practical skills of personal training. This professional development course prepares students for the opportunity to pursue certification as a personal trainer. Course content includes anatomy/physiology, biomechanics, nutrition, components of fitness and fitness assessments, and functional training concepts.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HES 299 Independent Study in Physical Education
1-3 cr.
Independent study in Physical Education.
Prerequisites: program must be approved by the department chair.
Course Rules: Repeatable.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS History (CGS HIS)

CGS HIS 100 First Year Seminar in History: Selected Topics
3 cr.
In this seminar style course designed for first semester freshmen, students will learn about a historical topic in depth and from different angles while also focusing on critical thinking, analysis of various types of sources, historical interpretation, and debates among historians. Students will also be introduced to college level expectations and study habits.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 101 History of the United States: From the Era of the Columbian Exchange to the Era of the Civil War
3 cr.
A survey of American political, economic, social, and intellectual history from the Age of European Exploration and the period of colonization to the era of the American Civil War. As an Ethnic Studies ES course, this course thoroughly integrates the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans into US history in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 102 History of the United States: From the Era of the Civil War to the Present
3 cr.
A survey of American political, economic, social, and intellectual history from the era of the Civil War to the Present, including the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 105 History of Western Civilization from Ancient Times to the Era of the Renaissance
3-4 cr.
Survey of Western Civilization from ancient times through the Renaissance, emphasizing the distinctive features of Western culture, political development, economic development, and the contributions made by non-Western people.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Summer 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 106 History of Western Civilization from the Era of the Renaissance to Contemporary Times
3-4 cr.
Survey of Western Civilization from the Renaissance to contemporary times, emphasizing the further development of Western culture, political institutions, and economic institutions, including reference to the interaction among the peoples of the modern world.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 111 Ancient History
3 cr.
Survey of the history of civilization from the beginnings in Mesopotamia and Egypt through Classical Greece with emphasis on institutional and social development.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 112 Ancient History
3 cr.
Survey of the history of civilization from Alexander the Great through the fall of the Roman Empire with emphasis on institutional and social development.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS HIS 127 The World in the Twentieth Century
3 cr.
Survey of the major trends in Europe, Asia, Africa, and the Americas since 1900; the two world wars; the social and political revolutions of our time; Fascism and Communism; and the new states of Africa and Asia.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 161 World History to 1500
3-4 cr.
A topical approach to the history of premodern humankind. Special attention will be given to the emergence, development, and interaction of civilizations in Asia, Africa, Europe, and the Americas.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 162 World History Since 1500
3-4 cr.
A topical history of global humankind with emphasis on the rise of the West to world dominance and the various ways in which the peoples of Africa, Asia, and Latin America have responded to the Western challenge.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 204 Introduction to Public History
3 cr.
An introduction to the field of public history with topics for classroom discussion including the concept of public memory, historic preservation theory and practice, creation of museum exhibits, and career opportunities in the field of history outside of education. Students will apply knowledge gained from the course to evaluate historic exhibits and gain field work by undertaking their own exhibit, archival or preservation project.
Prerequisites: None.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 208 The Film as Social History
3 cr.
Feature and documentary films produced in a particular historical period or on a specific historical topic. Through viewing selected films, the student will gain a deeper understanding of the motion picture’s significance as an historical document, as well as its function as a propaganda device. The course will relate the thematic content of the selected films to the specific historical context in which they were produced and consumed.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 217 The United States and Vietnam
3 cr.
An investigation of the war in Southeast Asia, 1945-1975, focusing on these topics: Southeast Asian historical context, French colonialism, Southeast Asian cultural and political contexts, Vietnamese nationalism, the role of the Cold War, American involvement, the debate on American policy, experiences of US soldiers and South East Asian participants, American withdrawal, conclusion of the fighting, and long-term effects in the United States, in South East Asia and globally.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 255 Proseminar in History
3 cr.
This course will explore a historical topic through readings, discussion, and written assignments.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 256 Topics in History:
1-3 cr.
This course will explore in depth an historical topic through lectures, discussions, readings, and written assignments.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 258 The Holocaust: Politics of Peace, Nationalism, and War
3 cr.
Historical background and current scholarly debate about the best documented genocide in recent history. Students will explore a variety of sources produced during and after the period, including films, posters and literature.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Summer 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 272 History and Culture of the Sciences
3 cr.
This course will examine, in a historical context, how science has been constructed and how it has interacted with other aspects of society, such as politics, religion, culture, and economics. These themes will be addressed by closely studying two transformations in scientific and human thought: first, the shift from an Earth-centered to a sun-centered universe, and second, the development of the theory of Evolution by natural selection. Finally, we will briefly consider the emergence of new major scientific and cultural transitions which are now occurring.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
CGS HIS 277 Indians in American History
3 cr.
This course surveys U.S. history with emphasis on contact in the age of exploration, interactions over time between Europeans and Native Americans, and adaptations and conflicts that emerged. The course will approach this from social, political, and economic perspectives from the colonial period to the present. This course focuses on understanding the perspectives of Native Americans.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 283 War and American Society
3 cr.
An investigation of the impact of wars on American society. Wars from the earliest European settlement through the wars of the early 21st century may be included. The home front will be emphasized, with attention to wartime politics and economy, civil liberties, the experience of non-combatants, and the larger social effects of war.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 290 History of Wisconsin
3 cr.
History of Wisconsin from the beginning of the historical period to the present, with emphasis on the economic and social aspects of Wisconsin history since 1815.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS HIS 299 Independent Studies
1-3 cr.
Extensive reading for the purpose of surveying the literature on a particular historical subject, possibly including a research project, under the personal supervision of the instructor.
Prerequisites: Repeatable. Subject matter is open, to be determined by the student and instructor. Students will be encouraged to use off-campus resources when available.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Interdisciplinary Studies (CGS INT)

CGS INT 280 Interdisciplinary Studies: Culture Clashes and the Modern World
3 cr.
This course uses history and anthropology to explore what happens when people of very different cultures and regions of the world collide, through the lenses of Anthropology and History.
Prerequisites: none.
Course Rules: Counts as repeat of CGS INT 290 with similar topic.
General Education Requirements: IS, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS INT 281 Interdisciplinary Studies: Deviant Minds
3 cr.
Approaches the concept of deviance from both sociological and psychological perspectives, including the ‘deviant’ (rule-breaking) categories of mental illness and criminal behavior.
Prerequisites: none.
Course Rules: Counts as repeat of CGS INT 290 with similar topic.
General Education Requirements: IS, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS INT 282 Interdisciplinary Studies: Rich Man, Poor Man
3 cr.
The concept of stratification within the United States from both sociological and psychological perspectives, focusing on social class, race, and gender and their intersections.
Prerequisites: none.
Course Rules: Counts as repeat of CGS INT 290 with similar topic.
General Education Requirements: CD, IS, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS INT 283 Interdisciplinary Studies: Local Applications of Global Sustainability
3 cr.
An interdisciplinary exploration of current sustainability issues, taking both global and local perspectives through the lenses of geology and other fields in the natural sciences.
Prerequisites: none.
Course Rules: Counts as repeat of CGS INT 290 with similar topic.
General Education Requirements: IS, NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS INT 284 Interdisciplinary Studies: Understanding Our Environment
3 cr.
Observation of our environment with the eyes of many disciplines in order better to understand and appreciate it, what it offers us, and what responsibilities we have in relation to it.
Prerequisites: Counts as repeat of CGS INT 290 with similar topic.
General Education Requirements: HU, IS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS INT 290 Special Topics in Interdisciplinary Studies
1-5 cr.
Interdisciplinary courses designed to help students learn to integrate knowledge from across the curriculum. Includes investigation of the multiple dimensions of the given subject by applying the content, methods and assumptions of two or more disciplines as presented by instructors from those disciplines.
Prerequisites: none.
General Education Requirements: IS
Current Offerings: https://catalog.uwm.edu/course-search/
CGS Italian (CGS ITA)

CGS ITA 103 First Semester Italian--Part I
2 cr.
For students who have had no previous training in the language. This course is the first module of a two-part introductory sequence. Emphasis on reading, writing, listening, and speaking in Italian. Classes may include cultural studies of Italy and other Italian-speaking countries or regions.
Prerequisites: None.
Course Rules: CGS ITA 103 in combination with CGS ITA 104 is equivalent to CGS ITA 101.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Learning Resources (CGS LEA)

CGS LEA 101 Academic Reading
0 cr.
Introduction to independent academic reading at a college level. Strategies for increasing comprehension, varying reading rate, and developing critical reading skills.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEA 102 Learning Skills
0 cr.
Workshop or discussion course that helps students develop college-level learning skills.
Prerequisites: none.
Course Rules: Fee for 1 cr assessed; credit counts toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEA 103 College Reading and Study Strategies
0 cr.
A reading-intensive course that helps students develop effective strategies for reading textbooks and nonfiction texts, taking notes, studying for exams, and taking tests.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEA 110 TRIO Writing Studio
0 cr.
Workshop or tutorial that provides individualized and small group instruction to help students develop college-level reading and writing skills.
Prerequisites: none.
Course Rules: Taken concurrently with a composition course or other writing-intensive class. This course is offered by a campus TRIO program. Fee for 1 cr assessed; credit counts toward credit load for Financial Aid and enrollment verification only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Lecture Forum (CGS LEC)

CGS LEC 100 First-Year Seminar
1-3 cr.
Helps students make the transition to college by promoting active learning, student involvement and responsibility in the learning process. Also develops life management skills, and engages students on campus. Each CGS LEC 100 section incorporates a specific subject of inquiry.
Consult the campus course schedule for additional information.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 101 First-Year Seminar: Academic Reading
3 cr.
Introduction to college learning while also focusing on independent academic reading at a college level.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS LEC 105 Finding Your Pathway
3 cr.
Designed to help students successfully transition to college, explore career options, set meaningful academic and career goals, develop essential skills such as information literacy and critical thinking skills, and engage in academic behaviors and study strategies that will help them meet with success.
Prerequisites: CGS ENG 98 or placement into CGS ENG 101 or higher.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 110 Introduction to Experiential Learning
1 cr.
Introduction to college-level experiential learning, including prior learning, service-learning, and internships. How to document experiential learning with an electronic portfolio.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 200 Sophomore Seminar
1-3 cr.
Enhances the sophomore experience and positions students for success as they prepare to complete bachelor-degree studies.
Prerequisites: none.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 202 Sophomore Seminar Tutor Training
1 cr.
This course prepares students for the role of peer tutor. Topics include active and collaborative learning, critical thinking and problem solving, interpersonal communication, and assisting peers with how to effectively and efficiently learn subject-related content.
Prerequisites: Open to current peer tutors at the Waukesha Academic Success Center and Washington County Learning Commons. It is required of all students tutoring in the math and course-specific/subject area tutoring programs. Continuing tutors must pass the course with a C or higher to stay employed as a tutor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 203 Tutoring Seminar: Learning Center Research and Practice
1-3 cr.
Students will examine the ways individualized peer instruction can be beneficial and a range of strategies for offering such instruction, and will reflect on peer observations of their own tutoring.
Prerequisites: CGS LEC 202(P) or CGS ENG 291(P).
Course Rules: Open to current peer tutors at the Waukesha Academic Success Center or the Washington County Learning Commons who have successfully completed one credit of CGS LEC 202 or CGS ENG 291.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 294 General Internship
1-3 cr.
Off- or on-campus experiential learning activities designed to provide students with the opportunity to make connections between their coursework and a professional work environment.
Prerequisites: a minimum of 12 completed course credits and at least 2.5 GPA at date of enrollment.
Course Rules: Repeatable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 305 (U)Applied Project Management
1 cr.
Development and application of project management skills using project management software. Assigned projects will require students to apply project management, leadership, and teamwork skills in a practical context. This course employs the Project Management Body of Knowledge PMBOK from the Project Management Institute PMI. PMBOK has become the basis for the Project Management Professional PMP certification exam.
Prerequisites: junior level status and CGS MAT 110 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 390 Creativity and Problem-Solving
3 cr.
Interdisciplinary exploration of creativity and problem solving processes, with emphasis placed on active learning through use of case studies. This course is the Cognitive Skills core course for the BAAS degree.
Prerequisites: junior standing or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 391 The World in the 21st Century
3 cr.
Surveys the interconnected world of the 21st century; historical roots of present day globalism with a focus on unifying themes. Key pillars of globalism.
Prerequisites: junior standing or consent of instructor.
Course Rules: This course is the Global Studies core course for the BAAS degree.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 394 Internship Seminar
2-3 cr.
Educational experience that provides students with an opportunity to apply disciplinary learning to service within the public and private sector. Offers students a chance to expand professional skills while earning academic credit by providing first-hand experience in a particular field of interest.
Prerequisites: junior standing or consent of instructor.
Course Rules: 1-credit for the internship seminar; 2-credits for the hours of internship service.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 473 Introduction to the BAAS Degree & the Capstone Project
1 cr.
Introduction to degree completion program and degree requirements. Participation in diagnostic tools to explore preferences for/develop an experiential service project, develop a profile of strengths/talents and plan for attaining the degree.
Prerequisites: none.
Course Rules: This course is the first in the three-course capstone sequence.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS LEC 483 Senior Capstone Seminar
3 cr.
Offers a culminating learning experience for students nearing the completion of the BAAS degree. Equips students with the learning capacities and competencies necessary for continued career, civic, and personal growth.
Prerequisites: senior level status or consent of instructor; CGS LEC 473(P).
Current Offerings: https://catalog.uwm.edu/course-search/
CGS LEC 493 Senior Capstone Project
2 cr.
This course is designed to offer a culminating learning experience for students nearing the completion of the Bachelor of Applied Arts and Sciences degree. The fundamental aim of the course is to equip students with the learning capacities and competencies necessary for continued career, civic, and personal growth. You will focus on executing, completing, and reviewing the capstone project. The final capstone project, its outcomes and implications, will be shared in a campus or community presentation.
Prerequisites: Senior level status or consent of instructor; CGS LEC 483.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Mathematics (CGS MAT)

CGS MAT 75 Math Success Strategies
0 cr.
Highly interactive format providing mathematics instruction and instilling study skills and strategies for succeeding in mathematics courses.
Prerequisites: none.
Course Rules: Previously CGS MAT 99. Fee for variable credit assessed (1-6) depending on contact hours; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 81 Topics in Geometry
0 cr.
Designed for students who have not had high school geometry. Includes methods of proof, properties of simple plane figures, congruence, and similarity.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 91 Elementary Algebra
0 cr.
Intended for students with little or no previous algebra. Topics include the real number system and operations with real numbers and algebraic expressions, linear equations and inequalities, polynomials, factoring, and introduction to quadratic equations.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 92 Mathematical Literacy for College Students I
0 cr.
Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Students must enroll in corresponding section of CGS MAT 102. Not recommended for students planning to take Calculus. Students registering after classes have begun will have missed class sessions counted against their attendance for this course.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 98 Algebraic Literacy I
0 cr.
Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations.
Prerequisites: Math Placement Level 10.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Students must enroll in corresponding section of CGS MAT 108. Students registering after classes have begun will have missed class sessions counted against their attendance for this course.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 100A Beginning and Intermediate Algebra
0 cr.
UW COLLEGES COURSES ONLINE ONLY. Arithmetic operations, equations/inequalities involving the algebraic objects are solved including polynomial equations through the quadratic formula. Linear/quadratic, rational/radical equations, algebraic/graphical representation of lines and interpreting graphical representation of functions.
Prerequisites: grade of C or better in CGS MAT 090 or based on placement test score.
Course Rules: Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 100B Beginning and Intermediate Algebra
3 cr.
UW COLLEGES COURSES ONLINE ONLY. Arithmetic operations, equations/inequalities involving the algebraic objects are solved including polynomial equations through the quadratic formula. Linear/quadratic, rational/radical equations, algebraic/graphical representation of lines and interpreting graphical representation of functions.
Prerequisites: grade of C or better in CGS MAT 090 or based on placement test score.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS MAT 101 Introduction to College Algebra  
3-4 cr.  
UW COLLEGE COURSES ONLINE AND ASSOCIATE FLEX PROGRAM ONLY. Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.  
**Prerequisites:** grade of C or better in Elementary Algebra or CGS MAT 103A or placement based on placement test score.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 102 Mathematical Literacy for College Students II  
3 cr.  
Continuation of CGS MAT 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.  
**Prerequisites:** none.  
**Course Rules:** Students must register in the corresponding section of CGS MAT 92.  
**Last Taught:** Spring 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 103 Contemporary Applications of Mathematics  
3 cr.  
Course focuses on analytic reasoning and quantitative problem solving. Topics include construction and interpretation of graphs, functional relationships, descriptive statistics, geometry and spatial visualization, math of finance, exponential growth, voting theory, and basic probability.  
**Prerequisites:** Math Placement Level 10.  
**Course Rules:** Not recommended for students planning to take Calculus.  
**Last Taught:** Summer 2020, Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 104 Quantitative Reasoning  
3 cr.  
UW COLLEGE COURSES ONLINE ONLY. This course is intended to develop analytic reasoning and the ability to solve quantitative problems. Topics to be covered include construction and interpretation of graphs, functional relationships, descriptive statistics, geometry and spatial visualization, math of finance, exponential growth, and basic probability. Appropriate use of units and dimensions, estimates, mathematical notation and available technology will be emphasized throughout the course.  
**Prerequisites:** A course in plane geometry and one of the following: Placement based on MPT score or a grade of C or better in CGS MAT 91 or equivalent.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 105 Introduction to College Algebra  
3 cr.  
Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations.  
**Prerequisites:** Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in CGS MAT 98; or (c) ACT math sub score of 24 or higher.  
**Course Rules:** Counts as repeat of CGS MAT 108.  
**Last Taught:** Summer 2020, Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 108 Algebraic Literacy II  
3 cr.  
Continuation of CGS MAT 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations.  
**Prerequisites:** Math placement Level 10.  
**Course Rules:** Students must register in the corresponding section of CGS MAT 98. Counts as repeat of CGS MAT 105.  
**Last Taught:** Spring 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 110 College Algebra  
3 cr.  
Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics such as mathematical induction, matrix solution of linear systems and Cramer’s rule.  
**Prerequisites:** A grade of C or better in CGS MAT 103B or CGS MAT 101 or placement based on placement test score.  
**Course Rules:** Equivalent to MATH 116.  
**Last Taught:** Summer 2020, Spring 2020.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 113 Trigonometry  
2 cr.  
UW COLLEGE COURSES ONLINE ONLY. Trigonometric functions, their basic properties and graphs, identities, inverse trigonometric functions, solving trigonometric equations, solutions of triangles.  
**Prerequisites:** a grade of C or better in CGS MAT 110(P); or concurrent registration in CGS MAT 110(C); or placement based on placement test score.  
**Last Taught:** Summer 2020, Spring 2020, UWinteriM 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

CGS MAT 115 Precalculus  
4 cr.  
Essential topics from college algebra and trigonometry for students intending to enroll in calculus.  
**Prerequisites:** Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in CGS MAT 105, CGS MAT 108, or CGS MAT 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.  
**Course Rules:** Repeats two credits of CGS MAT 116 and two credits of CGS MAT 117.  
**Last Taught:** Spring 2020, Fall 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
CGS MAT 116 College Algebra
3 cr.
Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics.
Prerequisites: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in CGS MAT 94, CGS MAT 95, or CGS MAT 98; (c) ACT math subscore of 24 or higher.
Course Rules: Two credits may be used to repeat two credits of CGS MAT 115.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 117 Trigonometry
2 cr.
Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in CGS MAT 105, CGS MAT 108, or CGS MAT 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: Repeats 2 credits of MATH 115.
General Education Requirements: MS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 130 Mathematics for Elementary Teachers
4 cr.
A mathematics content course for prospective elementary teachers. Emphasis is on development of properties of arithmetic. Topics also may include elementary concepts of algebra, probability, and statistics. Four hours lecture or three hours lecture and two hours laboratory per week.
Prerequisites: A grade of C or better in CGS MAT 103B or CGS MAT 105 or CGS MAT 108, or two years of high school algebra and one year of high school geometry, or cons. instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 175 Mathematical Explorations for Elementary Teachers I
3 cr.
Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies.
Prerequisites: A grade of C or better in CGS MAT 102, CGS MAT 103, CGS MAT 108, or Math Placement Level at least 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) ACT math subscore of 24 or higher.
General Education Requirements: MS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 176 Mathematical Explorations for Elementary Teachers II
3 cr.
A continuation of CGS MAT 175 in geometry, statistics, and probability.
Prerequisites: Grade of C or better in CGS MAT 102, CGS MAT 103, or CGS MAT 108, or Math Placement Level at least 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) ACT math subscore of 24 or higher.
General Education Requirements: MS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 210 Topics in Finite Mathematics
3-4 cr.
UW COLLEGES COURSES ONLINE ONLY. Matrices, linear programming and applications, probability, Markov chains, and mathematics of finance. Prereq: A grade of C or better in MAT 110 or MAT 124 or equivalent or placement based on placement test score.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 211 Calculus
4 cr.
A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications.
Prerequisites: Math Placement Level 30, which is achieved by one of the following: (a) grade of C or better in CGS MAT 105, CGS MAT 108, or CGS MAT 116; (b) score of 5 or higher on the IB Mathematical Studies - SL; (c) score of 3 or higher on the AP statistics exam; or (d) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: May not be used as a prereq for CGS MAT 222. No credit for students with credit in CGS MAT 221.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 215 Elementary Statistical Analysis
3 cr.
Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.
Prerequisites: Math Placement Level 30 or higher, or a grade of C or better in CGS MAT 102, CGS MAT 103, CGS MAT 105, CGS MAT 108, or CGS MAT 115, or CGS MAT 116.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/
CGS MAT 221 Calculus and Analytical Geometry I
5 cr.
Analytic geometry, functions, limits and continuity, the derivative, integrals, techniques and applications of differentiation, applications of integration, logarithmic and exponential functions, and trigonometric functions.
Prerequisites: A grade of C or better in CGS MAT 124 or CGS MAT 110 and CGS MAT 113 or equivalent, or placement based on placement test score.
Course Rules: Students may not earn more than six credits by taking both CGS MAT 211 and CGS MAT 221.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 222 Calculus & Analytical Geometry II
5 cr.
UW COLLEGE COURSES ONLINE ONLY. Continuation of CGS MAT 221. Techniques of integration, polar coordinates, conic sections, infinite series, and vectors of two and three dimensions.
Prerequisites: A grade of C or better in CGS MAT 221, or placement based on the department Calculus Proficiency Test or AP exam.
Course Rules: The order of topics covered in CGS MAT 221 and CGS MAT 222 may depend on the text used and the instructor.
General Education Requirements: MS
Last Taught: Summer 2020, Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 223 Calculus & Analytical Geometry III
4-5 cr.
UW COLLEGE COURSES ONLINE ONLY. Continuation of CGS MAT 222. Analytic geometry of three dimensions, functions of several variables, partial differentiation, multiple integration, and introduction to differential equations.
Prerequisites: a grade of C or better in CGS MAT 222 or equivalent.
General Education Requirements: MS
Last Taught: Summer 2020, Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 228 Statistical Analysis
3 cr.
Elements of probability theory; collection and presentation of sample data; basic problems of statistical inference; applications, including quality control; regression; and hypothesis testing.
Prerequisites: grade of C or better in CGS MAT 211, CGS MAT 221, or equivalent.
General Education Requirements: MS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 229 Linear Algebra
3 cr.
Matrix algebra, linear systems of equations, vector spaces, subspaces, linear dependence, rank of matrices, determinants, linear transformations, eigenvalues and eigenvectors, diagonalization, inner products and orthogonal vectors, and symmetric matrices.
Prerequisites: A grade of C or better in CGS MAT 222.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 232 Calculus and Analytic Geometry II
4 cr.
Continuation of CGS MAT 221. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.
Prerequisites: A grade of C or better in CGS MAT 221.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 233 Calculus and Analytic Geometry III
4 cr.
Continuation of CGS MAT 232. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications.
Prerequisites: A grade of C or better in CGS MAT 232.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 234 Linear Algebra and Differential Equations
3 cr.
Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications.
Prerequisites: grade of C or better in CGS MAT 232 or equivalent.
General Education Requirements: MS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MAT 237 Ordinary Differential Equations
3 cr.
Ordinary differential equations of the first and second order, series solutions, higher order linear equations, the Wronskian, Laplace transforms and applications, numerical methods and boundary value problems.
Prerequisites: A grade of C or better in CGS MAT 222.
General Education Requirements: MS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Meteorology (CGS MLG)

CGS MLG 100 Introduction to Meteorology
3-4 cr.
Conditions and the processes of the atmosphere that constitute weather; description and explanation of various atmospheric processes. Topics include: solar energy budget, heating of the atmosphere, temperature, air pressure, winds, atmospheric moisture, precipitation, air masses, fronts, mid-latitude cyclones, thunderstorms, tornadoes, hurricanes, analysis of weather maps and forecasting.
Prerequisites: none.
Course Rules: NS if 4 cr. also LS.
General Education Requirements: NS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS Music (CGS MUS)

CGS MUS 1 Beginning Piano
1-2 cr.
A study of basic piano technique toward skill in playing five-finger patterns and triads in all major and minor keys, chord progressions in all major keys, major and harmonic minor scales, basic transposition, legato and staccato touch and responsiveness to phrasing.
Prerequisites: consent of instructor.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 2 Beginning Piano
1-2 cr.
A continuation of skills learned in MUS 001 extending beyond five-finger patterns, including more complex chord progressions, varied types of touch control, additional major and harmonic minor keys and scales, and sixteenth note rhythms.
Prerequisites: successful completion of MUS 001 and/or cons. instr.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 3 Elementary Piano
1-2 cr.
A continuation of skills learned in CGS MUS 002: dexterity playing major and harmonic minor scales and arpeggios, harmonization of a given melody with block chord accompaniment, playing various rhythms including syncopation in simple, compound and asymmetric meters, and reading and playing two parts including alto or tenor clef.
Prerequisites: successful completion of CGS MUS 002 and/or consent of instructor.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 4 Elementary Piano
1-2 cr.
A continuation of skills learned in CGS MUS 3 adding scales and arpeggios in additional keys, harmonizing a given melody with an arpeggiated chordal accompaniment, reading and playing in three and four part score format, and additional and varied repertoire.
Prerequisites: successful completion of CGS MUS 3 and/or consent of instructor.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 70 Orchestra
1-2 cr.
Open to all students with experience playing an orchestral instrument.
Prerequisites: Individual campuses may require an audition for admission.
Course Rules: Repeatable to a max of 8 credits.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 71 Band
1-2 cr.
Open to all students with experience playing a band instrument.
Prerequisites: Individual campuses may require an audition for admission.
Course Rules: Repeatable to a max of 8 credits.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 72 Chorus
1-2 cr.
Open to all students.
Prerequisites: Individual campuses may require an audition for admission.
Course Rules: Repeatable to a max of 8 credits.
General Education Requirements: AP
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 170 Fundamentals of Music
3 cr.
This course is designed to acquaint the student with the fundamentals of music through experiences with the keyboard, rhythm instruments, singing, listening, and note reading. Required for some elementary education majors and open to the general student. Acceptable as preparation for a music major or minor program.
Prerequisites: none.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 171 Music Theory I
3 cr.
A detailed study of the development of Western Music's structural techniques and basic compositional components through the study and analysis of harmony and an introduction to counterpoint. Notation, rhythm, major and minor keys, modes, root position triads, inverted chords, non-harmonic tones and an introduction to part writing will be studied. Includes keyboard work to examine, explore and understand the materials studied. Open to all students with consent of instructor. Required of students planning a music major or minor.
Prerequisites: Cons. instr.
Course Rules: Music majors and minors must enroll concurrently in CGS MUS 181 to meet aural skills requirement.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS MUS 172 Music Theory II
3 cr.
Continuation of CGS MUS 171. Melodic harmonization, voice-leading, harmonic and rhythmic progression, dominant seventh and leading-tone seventh chords, non-dominant seventh chords, introduction to modulation, secondary dominant and leading-tone chords, introduction to two and three-part forms and counterpoint will be studied. Required of students planning a music major or minor. Music majors and minors must enroll concurrently in CGS MUS 182 to meet aural skills requirements.
Prerequisites: CGS MUS 171.
General Education Requirements: A
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 173 Music Literature and Appreciation
3 cr.
A guide to the understanding of music through listening experiences in the various styles and historical periods.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 174 Music Literature and Appreciation
3 cr.
A guide to the understanding of music through listening experiences in the various styles and historical periods. Although a continuation of MUS 173, MUS 173 is not a prerequisite for admission to this course.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 181 Aural Skills I
2 cr.
Development of skills in sight-singing and ear-training. Required of students planning a music major or minor and enrolled in CGS MUS 171.
Prerequisites: none.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 182 Aural Skills II
2 cr.
Development of skills in sight-singing and ear-training. Required of students planning a music major or minor and enrolled in CGS MUS 172.
Prerequisites: CGS MUS 181.
General Education Requirements: AP
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 271 Music Theory III
3 cr.
A continuation of CGS MUS 172 with an introduction to advanced harmony and counterpoint. Concepts of counterpoint, harmonic sequences, chromatic harmony, advanced modulation, Neapolitan and augmented sixth chords, more complex forms such as sonata, concerto, sonata-rondo and the fugue will be studied. Required of students planning a music major or minor.
Prerequisites: Music majors and minors must enroll concurrently in CGS MUS 281 to meet aural skills requirements. Prereq. CGS MUS 172.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 273 Jazz History and Appreciation
3 cr.
An introduction to the styles and forms of jazz through a study of its history, literature, cultural influences, musical structure, and prominent performers. Includes recorded listening experiences.
Prerequisites: none.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 278 History of Rock and Roll
3 cr.
A study of Rock and Roll with emphasis on the roots, origins and influential figures in the history of this cultural phenomenon. Includes recorded listening experiences.
Prerequisites: none.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 281 Aural Skills III
2 cr.
Development of aural skills in sight-singing and ear-training. Required of students planning a music major or minor and enrolled in CGS MUS 271.
Prerequisites: CGS MUS 182.
General Education Requirements: AP
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 282 Aural Skills IV
2 cr.
Development of aural skills in sight-singing and ear-training.
Prerequisites: CGS MUS 281.
Course Rules: Required of students planning a music major or minor and enrolled in CGS MUS 272.
General Education Requirements: AP
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUS 285 World Music
3 cr.
A guide to the understanding of non-Western and ethnic Western music through guided listening experiences of representative music throughout the world; the study of the effect of demographics and geographic concepts within a culture; and the resulting impact on America’s diverse musical culture.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS Music Applied (CGS MUA)

CGS MUS 299 Independent Study
1-3 cr.
Readings, papers, reports or projects to be determined by the instructor.
Prerequisites: consent of instructor.
Course Rules: Repeatable.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Music Applied (CGS MUA)

CGS MUA 9 Intermediate Voice
1-2 cr.
Prerequisites: none.
Course Rules: Repeatable.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 109 1st Year Voice
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 143 1st Year Tuba
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 155 1st Year Cello
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 156 1st Year Cello
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 209 2nd Year Voice
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 210 2nd Year Voice
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 213 2nd Year Guitar
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS MUA 243 2nd Year Tuba
1-2 cr.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Philosophy (CGS PHI)

CGS PHI 101 Introduction to Philosophy
3 cr.
An introduction to philosophy as an activity of clarifying ideas, developing and evaluating positions and arguments, and thinking critically about the Big Ideas That Matter.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 201 Asian Philosophy
3 cr.
An exploration of philosophically significant topics pertaining to the traditions of Asia. Attention will be paid to arguments pertaining to these topics as well as careful analysis of such classic primary sources as the Upanishads, Bhagavad Gita, Analects, Daodejing, and Zhuangzi.
Prerequisites: none.
Course Rules: CGS PHI 201 and CGS REL 201 are the same course.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 202 Feminist Philosophy
3 cr.
An introduction to feminist philosophies through a study and critique of traditional and feminist views about women, their lives, society, and knowledge, with particular attention to theories of women's oppression.
Prerequisites: none.
Course Rules: CGS PHI 202 and CGS GSW 202 are the same course.
General Education Requirements: HU
Last Taught: Summer 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 211 Elementary Logic
3 cr.
Principles and methods of logic as a tool for distinguishing good reasoning from bad, as present in anything from science and math to politics and personal relationships. Symbolic, deductive logic primarily propositional logic, with an introduction to predicate logic; may include some informal or inductive logic e.g., fallacies.
Prerequisites: none
General Education Requirements: MS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 215 Theory of Knowledge
3 cr.
An examination of the nature and limits of knowledge and the methods used for obtaining it. Topics typically include the distinction between knowledge and belief, problems of evidence and truth, the role of perception and memory, social aspects of knowledge, realism, relativism, skepticism, correspondence and coherence theories of truth, and the role of various disciplines e.g., philosophy, science, religion in attaining knowledge.
Prerequisites: none
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/
CGS PHI 220 Philosophy of Science 3 cr.
Methods, assumptions, and common misconceptions of the sciences as a source of knowledge of the natural world. Discussion of major figures in the history and philosophy of science e.g., Aristotle, Newton, Einstein, Hume, Popper, Kuhn, central concepts and theories e.g., induction, causality, probability, falsificationism, instrumentalism; the relationship of science to other aspects of society e.g., morality, politics, religion.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 237 Technology, Values and Society 3 cr.
Philosophical issues that emerge from the world of technology in which we live. Topics may include freedom, censorship, privacy, equality, democratic participation, intellectual property, education, law enforcement, institutional change, work, and all the personal and public choices about technology and its use with which we are confronted today.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 241 Ethics 3 cr.
Philosophical ethics, with attention paid to the philosophical methods of analysis and argumentation used to drive and evaluate moral theories and judgments. Topics may include the nature of moral truth e.g., absolute truth, relativism, pluralism, prominent moral theories e.g., virtue ethics, deontology, utilitarianism, important figures form the history of philosophy e.g., Aristotle, Kant, J.S. Mill, and contemporary moral issues e.g., abortion, capital punishment, euthanasia.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 242 Social and Political Philosophy 3 cr.
An examination of differing philosophical views about human kind and its social and political life. Topics may include the question of political legitimacy, the function of the state, the possible rights and obligations of citizens vis-à-vis the state, general concepts of justice, liberty, equality, and community as well as possible specific conceptions of these terms, and how social goods should be distributed.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 243 Business Ethics 3 cr.
Critical discussion of ethical reasoning and moral values in business and industry; includes relevant case studies and readings.
Prerequisites: none.
Course Rules: CGS BUS 242 and CGS PHI 243 are the same course; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 244 Environmental Ethics 3 cr.
A philosophical examination of both traditional and recent concepts and values which structure human attitudes towards the natural environment. Topics may include anthropocentrism, biocentrism, ecocentrism, Leopold's land ethic, deep ecology, and ecofeminism. Topics may include the ethics of using land for large-scale agricultural purposes, factory farming, fishing, hunting, xenotransplantation, species depletion, ozone depletion, and climate change.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 248 Biomedical Ethics 3 cr.
Study of ethical issues pertaining to medicine and related biological sciences. Issues covered usually include abortion, euthanasia, truth telling, confidentiality, experimentation on human subjects, behavior modification, genetic engineering, criteria of death, organ transplants, professional relationships, and professional duties.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 252 Philosophy of the Arts 3 cr.
An examination of production, appreciation, and criticism of art. Topics may include the nature of art, the nature of beauty, the functions of art if any, the moral status of works of art, aesthetic evaluation, the antimony of taste, the paradoxes of fiction, tragedy, and horror, and public financing of art. Theories may include the imitation/representation theory, expressionism, formalism, aesthetic experience theory, and institutional theory.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 253 Philosophy of the Arts 3 cr.
An examination of production, appreciation, and criticism of art. Topics may include the nature of art, the nature of beauty, the functions of art if any, the moral status of works of art, aesthetic evaluation, the antimony of taste, the paradoxes of fiction, tragedy, and horror, and public financing of art. Theories may include the imitation/representation theory, expressionism, formalism, aesthetic experience theory, and institutional theory.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 258 Human Nature, Religion and Society 3 cr.
Study and critique of the views of theistic and secular writers concerning religion and its relationship to individual and social problems.
Prerequisites: none.
Course Rules: CGS PHI 258 and CGS REL 258 are the same course.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 259 Philosophy and Racism 3 cr.
An examination of differing philosophical views about human kind and its social and political life. Topics may include the question of political legitimacy, the function of the state, the possible rights and obligations of citizens vis-à-vis the state, general concepts of justice, liberty, equality, and community as well as possible specific conceptions of these terms, and how social goods should be distributed.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
CGS PHI 261 Philosophy of Religion
3 cr.
An exploration and critical examination of philosophically significant topics pertaining to religion and its claims of knowledge of reality, divine or otherwise.
Prerequisites: none.
Course Rules: CGS PHI 261 and CGS REL 261 are the same course.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 291 Selected Topics in Philosophy
3 cr.
Each course offering must be approved by both the local campus and the chair of the department.
Prerequisites: varies with each offering.
Course Rules: Repeatable.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHI 299 Independent Reading in Philosophy
1-3 cr.
Program must be approved by chair of the department.
Prerequisites: consent of instructor.
Course Rules: Repeatable.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Physics (CGS PHY)

CGS PHY 107 Physics in Everyday Life
3 cr.
Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings. For non-science majors.
Prerequisites: Math Placement Level 10 or consent of instructor.
Course Rules: May not be taken concurrently with or after having taken CGS PHY 120.
General Education Requirements: NS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 108 Laboratory for Physics in Everyday Life
1 cr.
Experiments correlated with CGS PHY 107.
Prerequisites: Concurrent enrollment in or completion of CGS PHY 107.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 110 Physics for Health Professions
4 cr.
An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity.
Prerequisites: HS general science; Math Placement Level 20.
Course Rules: May not be taken concurrently with or after having taken CGS PHY 120.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 120 General Physics I (Non-Calculus Treatment)
4 cr.
Mechanics, wave motion, heat, and sound.
Prerequisites: Math Placement Level 30 or grade of C or better in CGS MAT 105, CGS MAT 108, or CGS MAT 110.
Course Rules: 3 hours lecture, 1 hours discussion. Students may not receive credit for both CGS PHY 120 and CGS PHY 209.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 121 General Physics Laboratory I (Non-Calculus Treatment)
1 cr.
Experiments correlated with lecture material of CGS PHY 120.
Prerequisites: Concurrent enrollment in or completion of CGS PHY 120.
Course Rules: Students may not receive credit for both CGS PHY 121 and CGS PHY 214.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 122 General Physics II (Non-Calculus Treatment)
4 cr.
Electricity, optics, modern physics.
Prerequisites: CGS PHY 120(P).
Course Rules: 3 hr lecture, 1 hr discussion. Students may not receive credit for both CGS PHY 122 and CGS PHY 210.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 123 General Physics Laboratory II (Non-Calculus Treatment)
1 cr.
Experiments on topics related to the lecture material of CGS PHY 122.
Prerequisites: Concurrent enrollment in or completion of CGS PHY 123.
Course Rules: Students may not receive credit for both CGS PHY 123 and CGS PHY 215.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 141 College Physics I
4-5 cr.
UW COLLEGE COURSES ONLINE ONLY. The study of mechanics, heat, wave motion and sound. Recommended for students majoring in business, elementary education, medical technology, pharmacy, pre-dentistry and pre-medical studies. Three hours of lecture and three-four hours of laboratory-discussion per week or equivalent.
Prerequisites: CGS MAT 105 or cons. instr.
Course Rules: Students may not receive credit for both CGS PHY 141 and 201.
General Education Requirements: NS+
Last Taught: Summer 2020, Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS PHY 142 College Physics II
4-5 cr.
UW COLLEGE COURSES ONLINE ONLY. A continuation of CGS PHY 141. Electricity, magnetism, light, and some modern physics.
Prerequisites: Grade of C or better in CGS PHY 141 or cons. instr.
Course Rules: Three hours of lecture and three-four hours of laboratory-discussion per week or equivalent. Students may not receive credit for both CGS PHY 142 and CGS PHY 202.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 201 University Physics I
5 cr.
UW COLLEGE COURSES ONLINE ONLY. The study of mechanics, heat, wave motion, and sound.
Prerequisites: CGS MAT 221 or concurrent registration with cons. instr.
Course Rules: Recommended for physical science and engineering majors. Three hours of lecture, one hour of discussion, and three hours of laboratory per week or equivalent. Students may not receive credit for both CGS PHY 141 and CGS PHY 201.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 202 University Physics II
5 cr.
UW COLLEGE COURSES ONLINE ONLY. A continuation of CGS PHY 201. Electricity, magnetism, light, and some modern physics.
Prerequisites: Grade of C or better in CGS PHY 201 or cons. instr.
Course Rules: Students may not receive credit for both CGS PHY 142 and CGS PHY 202.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 205 Modern Physics
3 cr.
UW COLLEGE COURSES ONLINE ONLY. Introduction to atomic, nuclear, and solid state physics; kinetic theory, special relativity, and quantum theory.
Prerequisites: Grade of C or better in CGS PHY 202 or cons. instr.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 209 Physics I (Calculus Treatment)
4 cr.
Selected topics in mechanics, wave motion, sound, and heat.
Prerequisites: Completion of or concurrent registration in CGS MAT 221.
Course Rules: 3 hr lecture, 2 hr discussion. Students may not receive credit for both CGS PHY 120 and CGS PHY 209.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 210 Physics II (Calculus Treatment)
4 cr.
Continuation of CGS PHY 209. Electromagnetic field theory and optics. 3 hour lecture, 1 hour discussion.
Prerequisites: Grade of C- or better in CGS PHY 209.
Course Rules: Students may not receive credit for both CGS PHY 122 and CGS PHY 210.
General Education Requirements: NS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 214 Lab Physics I (Calculus Treatment)
1 cr.
Experiments in mechanics, wave motion, heat, and thermodynamics.
Prerequisites: Concurrent enrollment in or completion of CGS PHY 209.
Course Rules: 3 hr lab. Students may not receive credit for both CGS PHY 121 and CGS PHY 214.
General Education Requirements: NS+
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 215 Lab Physics II (Calculus Treatment)
1 cr.
Experiments in electricity, magnetism, and optics.
Prerequisites: Concurrent enrollment in or completion of CGS PHY 210.
Course Rules: 3 hr lab. Students may not receive credit for both CGS PHY 123 and CGS PHY 215.
General Education Requirements: NS+
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PHY 299 Independent Study
1-3 cr.
Independent study under the supervision of an instructor. The work may, for example, consist of advanced laboratory investigation into a particular topic or library research and writing of a paper on some subject of interest.
Prerequisites: consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Political Science (CGS POL)

CGS POL 101 Introduction to Politics
3 cr.
What is the ideal form of government and society? A survey and analysis of ideas related to citizenship in the community, nation and world, with emphasis on competing political values/ideologies and civic engagement.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS POL 104 American Government and Politics
3 cr.
Analysis of the decision-making structure and processes of American national government, including the role of parties and interest groups, and the value preferences within American society which affect the formation of public policy.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 105 State and Local Supplement to POL 104
1 cr.
A one-credit study of state and local government.
Prerequisites: POL 104 or concurrent enrollment. SS
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 120 Politics of Crime and Punishment
3 cr.
Focuses on the competing goals of public policy in criminal justice, from public order, due process, efficiency, rights and liberties. Analyzes the interplay of key actors including police, courts and prisons in policy-making and implementation. Includes the role of media and myth.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 160 Comparative Politics
3 cr.
Studies a select set of important states with different political, economic, and cultural characteristics. Compares economic, social and political issues and policy choices, in addition to governance. Recommended for Business, Journalism, Education, and Political Science majors.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 175 International Politics
3 cr.
Global problems, issues and debates since the end of the Cold War, including terrorism, cultural and religious conflict and changing power relations. Impact of social, economic and technological change and evolution of the state system. Cooperative problem-solving and peace-making.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 210 Civil Liberties
3 cr.
An examination of civil liberties and their philosophical underpinnings. Through the reading of U.S. Supreme Court cases and other texts, students will study topics including the constitutional basis of civil liberties, the freedoms of conscience and expression, the rights of persons accused of crime, privacy, and property rights.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 215 Media and Politics
3 cr.
An examination of the impact mass media has had on democratic politics in the United States, including the role media plays in influencing political behavior and attitudes. Topics covered in the class include media bias, media power, use of media by government and interest groups, the role of media in campaigns and elections, and the influence of media on policy makers.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 219 Public Policy: Power, Conflict, Choice
3 cr.
Exploration of the public policy-making process in the U.S. with attention to select contemporary issues in American policy debates environment, energy, health, economic management, etc.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 231 Sex, Power and Public Policy
3 cr.
Examination of controversial issues of gender that affect equality and power. Includes women’s movement and the search for equality, justice and freedom. Examines political and judicial policies that exemplify success and failure.
Prerequisites: none.
Course Rules: CGS POL 231 and CGS GSW 231 are the same course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 280 Terrorism
3 cr.
Terrorism, both current and historic, will be analyzed in its development, logic and impact. Includes controversies over security and liberty, intelligence and forewarning, and deals with political, philosophic and religious aspects. Analysis of alternative responses to terrorism, and local coping strategies disaster management.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS POL 285 Politics of World Inequality and Development
3 cr.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 298 Special Topics
1-3 cr.
A course for topics which would be appropriate for freshmen and sophomores. Topic and number of credits will be announced in the timetable.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 299 Independent Reading
1-3 cr.
Survey of literature in a particular subject, possibly concluding with a research project supervised by the instructor. Subject and specific requirements determined by instructor/student agreement.
Prerequisites: consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS POL 311 International Political Economy
3 cr.
This course provides an introduction to the social, cultural, political, and economic issues in international economic cooperation and competition. Concepts, theories, and comparative approaches drawn from multiple social science disciplines are applied to the understanding of the history, transformation, trends and challenges in the pursuit of wealth for global and regional communities, as well as for individual nation states.
Prerequisites: Junior standing or consent of instructor.
Course Rules: CGS POL 175, or CGS POL 160, or CGS POL 104 are strongly recommended.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 201 Introductory Psychology
4 cr.
Survey of major content areas in Psychology. Topics include research methodology, learning, memory, cognition, biological psychology, sensation, perception, motivation, emotion, development, personality, psychopathology, and social psychology.
Prerequisites: none.
Course Rules: Students may not receive credit for both CGS PSY 201 and CGS PSY 202.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 202 Introductory Psychology
3 cr.
See CGS PSY 201 course description. Students may not receive credit for both CGS PSY 201 and CGS PSY 202.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 210 Statistical Methods in Psychology
3 cr.
An introduction to descriptive and inferential statistics. Topics include measures of central tendency, measures of variability, correlation and regression, sampling distributions, and hypothesis testing procedures including t-tests, and analysis of variance.
Prerequisites: CGS PSY 201 or CGS PSY 202; grade of C- or better or concurrent registration in CGS MAT 103, CGS MAT 105, CGS MAT 108, CGS MAT 116, or Math Placement Level 30 or above; or consent of instructor.
General Education Requirements: MS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 224 Conceptual Introduction to Statistics
1 cr.
This course is a supplement to CGS PSY 225 for students who have had no previous course in statistics.
Prerequisites: PCGS SY 201/CGS PSY 202 grade of C- or better or cons. instr. and concurrent registration in CGS PSY 225.
Course Rules: This course is not a substitute for CGS PSY 210 and does not satisfy requirements for an introductory course in statistics.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 225 Experimental Psychology
5 cr.
Emphasis on research techniques, design, and methodologies including the collection, analysis, and reporting of psychological data. Lecture and laboratory.
Prerequisites: CGS PSY 210 or equivalent statistics course, concurrent enrollment in CGS PSY 224 or cons. instr.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/
CGS PSY 250 Life Span Developmental Psychology
3 cr.
A survey of human development theories and research. Topics include the biological, cognitive, emotional, and social development of the individual from the prenatal period through old age and the process of death and dying.
Prerequisites: CGS PSY 201 or CGS PSY 202 with a grade of C- or better, or cons. instr.
Course Rules: Students taking CGS PSY 250 may not also receive credit for CGS PSY 360 or CGS PSY 362.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 254 Behavioral Neuroscience
3 cr.
Discussion of the biological substrates of attention, emotion, motivation, learning, cognition, language and psychopathology; includes an examination of research using lesions, stimulation and neuroimaging. Some background in biology is strongly recommended
Prerequisites: PSY CGS 201 or PSY CGS 202 with a grade of C- or better, or cons. instr.
General Education Requirements: NS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 299 Directed Study in Psychology
1-3 cr.
Directed reading of the literature in a particular subject, possibly including a research project, under the personal supervision of the instructor.
Prerequisites: a grade of C- or better in CGS PSY 201 or CGS PSY 202 and consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 307 Psychology of Personality
3 cr.
Discussion of major theories and research in personality; may include behavioral, biological, cognitive, dispositional, humanistic, and psychoanalytic perspectives.
Prerequisites: CGS PSY 201 or CGS PSY 202 with a grade of C- or better, or cons. instr.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 309 Abnormal Psychology
3 cr.
Contemporary theory and research on abnormal behavior; includes diagnostic categories, approaches to treatment and understanding of abnormal behavior.
Prerequisites: a grade of C- or better in CGS PSY 201 or CGS PSY 202; or consent of instructor. One additional course in psychology is recommended.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 330 Social Psychology
3 cr.
Theory and research in areas such as social cognition, attitude formation and change, attribution theory, interpersonal attraction, group processes, social influence, aggression and prosocial behavior.
Prerequisites: a grade of C- or better in CGS PSY 201 or CGS PSY 202; or consent of instructor.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 360 Psychology of Childhood and Adolescence
3 cr.
a survey of human development theories and research. Topics include the biological, cognitive, emotional and social development of the individual from the prenatal period through adolescence.
Prerequisites: a grade of C- or better in CGS PSY 201 or CGS PSY 202, or consent of instructor.
Course Rules: Students may not receive credit for both CGS PSY 360 and CGS PSY 250.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS PSY 362 Psychology of Adulthood and Aging
3 cr.
a survey of human development theories and research. Topics include biological, cognitive, emotional and social development of the individual from young adulthood through old age and the process of death and dying.
Prerequisites: a grade of C- or better in CGS PSY 201 or CGS PSY 202, or consent of instructor.
Course Rules: Students may not receive credit for both CGS PSY 362 and CGS PSY 250.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Religious Studies (CGS REL)

CGS REL 101 Introduction to the Study of Religion
3 cr.
Introduction to various methods employed in the academic study of religion and will provide opportunity for students to apply these methods to diverse expressions of the religious life. This course is primarily a global awareness competencies course.
Prerequisites: none.
General Education Requirements: HU, IS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS REL 201 Asian Philosophy
3 cr.
An exploration of philosophically significant topics pertaining to the traditions of Asia. Attention will be paid to arguments pertaining to these topics as well as careful analysis of such classic primary sources as the Upanishads, Bhagavad Gita, Analects, Dao De Jing, and Zhuangzi.
Prerequisites: none.
Course Rules: CGS PHI 201 and CGS REL 201 are the same course.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS REL 258 Human Nature, Religion and Society
3 cr.
Study and critique of the views of theistic and secular writers concerning
religion and its relationship to individual and social problems.
Prerequisites: none.
Course Rules: CGS PHI 258 and CGS REL 258 are the same course.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS REL 261 Philosophy of Religion
3 cr.
An exploration and critical examination of philosophically significant
topics pertaining to religion and its claims of knowledge of reality, divine
or otherwise.
Prerequisites: none.
Course Rules: CGS PHI 261 and CGS REL 261 are the same course.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS REL 275 Religion, Spirituality, and Secularism in Society
3 cr.
The sociological approach to the study of religious beliefs, practices,
and organizations, as found in the world religions, the religions of
indigenous peoples, and new religions. Includes the role of religion in
socialization, personal identity, family, politics, economics, and other
social institutions. How religious patterns relate to race, ethnicity, class,
and gender. The place of religion in modern and postmodern societies,
including discussions of religion and secularization, fundamentalism, and
globalization.
Prerequisites: Not recommended for first-semester students, except with
consent of instructor.
Course Rules: CGS REL 275 and CGS SOC 275 are jointly offered and
count as repeats of one another.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS REL 276 Religion and the Environment
3 cr.
The relationship between different religious perspectives and certain ways
of viewing and interacting with the natural world, including the effects
of these outlooks and their connection to contemporary environmental
issues.
Prerequisites: none.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS REL 299 Independent Reading in Religious Studies
1-3 cr.
Intensive study of a sacred text or of a secondary theological, literary,
exegetical or other text within a religious tradition.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS REL 343 Religion, Magic and Witchcraft
3 cr.
Descriptions and interpretations of magico-religious beliefs and practices
in a variety of cultures from an anthropological perspective; examines
theories about religion and some of the conceptual issues regarding the
interpretation of religion and related phenomena which have interested
anthropologists over time.
Prerequisites: none.
Course Rules: CGS ANT 343 and CGS REL 343 are the same course. Not
recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Sociology (CGS SOC)

CGS SOC 101 Introduction to Sociology
3 cr.
Introduction to the basic concepts, theories and methods of Sociology,
emphasizing the significance of the self and culture, social process and
organization, and forces of social stability and change.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 130 Contemporary Social Problems
3 cr.
Sociological analysis of the nature, extent, causes, and potential
solutions to selected major social problems such as poverty and wealth,
racial and gender discrimination, crime and violence, drug abuse, family
problems, quality of education, inadequate health care, population
problems, intergroup conflict, and threats to the environment.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 160 Sociology of Human Sexuality
3 cr.
Sociological overview of issues in human sexuality. Course is based
on sociological investigations of the origins, nature and biosocial
consequences of varying customs and ideals of human sexuality. Among
topics that may be covered are: sex and family life, contraception,
abortion and social power, violations of sexual norms and ideas about
sexual propriety, origins and impact of sexual liberation movements,
sociosexual aspects of epidemics, sociological interpretations of sexual
dissatisfactions.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS SOC 205 Global Social Problems
3 cr.
Sociological analysis of the nature, extent, causes, and potential solutions to global social problems such as consumerism, poverty and wealth, human rights, population growth and hunger, health issues, militarism and terrorism, and threats to the environment.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 220 Sociology of Marriage and the Family
3 cr.
Marriage and the family as social institutions in a changing world. Historical changes and societal variations in family patterns. Changes over the life cycle. Explores the sources and consequences of a variety of family forms.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 231 Crime and Criminal Justice
3 cr.
Explores the nature of crime and reviews ideas about definitions, causes, and solutions. Includes an introduction to the day-to-day functioning of the criminal justice system, the police, lawyers, courts, and correctional personnel.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 234 Sociology of Race and Ethnicity
3 cr.
The experience of American racial, religious, ethnic and nationality groups. The nature of intergroup relations in the United States. Relationship of intergroup dynamics to social change, and to basic ideological, technological, and institutional structures and processes. Emphasis on social conflict over the distribution of economic and political power, family patterns, housing, education and access to the legal system.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 246 Juvenile Delinquency
3 cr.
Examines the theories of the nature, causes, consequences, and prevention of juvenile misbehavior through examination of historic changes in the definition and frequency of juvenile offenses. Controversies over the practice of distinguishing juvenile crime and misbehavior from adult crime. Controversies over the treatment and punishment of juveniles, in connection with the activities of juvenile courts, parents and school officials, local communities, police departments, politicians, networks of attorneys and treatment personnel, and correctional authorities.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 250 People, Organizations, and Society
3 cr.
Role of organizations, including business, governmental, and educational, in American society. Impact of organizations on members and clients, the internal dynamics of organizations, and the interchange between organizations and their environment, including the society as a whole.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 275 Religion, Spirituality, and Secularism in Society
3 cr.
The sociological approach to the study of religious beliefs, practices, and organizations, as found in the world religions, the religions of indigenous peoples, and new religions. Includes the role of religion in socialization, personal identity, family, politics, economics, and other social institutions. How religious patterns relate to race, ethnicity, class, and gender. The place of religion in modern and postmodern societies, including discussions of religion and secularization, fundamentalism, and globalization.
Prerequisites: Not recommended for first-semester students, except with consent of instructor.
Course Rules: CGS REL 275 and CGS SOC 275 are jointly offered and count as repeats of one another.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 285 Sociology of Health and Illness
3 cr.
Sociological perspectives on health and illness, with special attention to changes in patterns of illness and death as they relate to broader socio-economic changes and to changes in orientation and organization of health care providers. Among major topics that the course covers are: competing theories of disease and death trends; social circumstances under which epidemics emerge and are curbed; public health and medical center models of providing health care and preventing disease, injury, and death; organization of health care providers; comparisons among health systems.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 294 Practice in Applied Sociology
1-3 cr.
An individually arranged internship in an area museum, field site, public agency, or other organizations for students to gain practical experience as field researchers. Intended for advanced students with prior Sociology coursework. Students will work under the supervision of a department member and receive credit based on hours employed and completion of a final report summarizing how their experiences reflect classroom learning and how they will apply their experience in future work.
Prerequisites: previous Sociology course and consent of instructor.
Course Rules: Repeatable for a maximum of six credits.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 299 Independent Reading in Sociology
1-3 cr.
Prerequisites: consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/
CGS SOC 355 Sociology of the Environment
3 cr.
Explores the socio-cultural foundations of our relationship with the natural environment. Examines the relationship between environmental degradation and social, political, and economic structures. Explores beliefs and values about the environment and their expression in various forms of environmentalism and environmental movements. Also analyzes the presentation of environmental issues in cultural, political, and scientific domains.
Prerequisites: Not recommended for first-semester students.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SOC 455 Sociology of the Environment
3 cr.
Socio-cultural foundations of our relationship with the natural environment; relationship between environmental degradation and social, political, and economic structures; beliefs and values about the environment and their expression in various forms of environmentalism and environmental movements. Also analyzes the presentation of environmental issues in cultural, political, and scientific domains.
Prerequisites: junior standing or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS Spanish (CGS SPA)

CGS SPA 101 First Semester Spanish
4 cr.
For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in Spanish. Classes also may include cultural studies of Spain and Latin America.
Prerequisites: none.
Course Rules: Field trip may be required.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SPA 102 Second Semester Spanish
4 cr.
This course is a continuation of CGS SPA 101. This course integrates cultural studies of Spanish-speaking countries while emphasizing reading, writing, listening, and speaking in Spanish.
Prerequisites: CGS SPA 101 or requisite placement test score or consent of instructor.
Course Rules: Field trip may be required.
General Education Requirements: HU
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SPA 102X Second Semester Spanish
4 cr.
This course is a continuation of CGS SPA 101. This course integrates cultural studies of Spanish-speaking countries while emphasizing reading, writing, listening, and speaking in Spanish.
Prerequisites: CGS SPA 101 or requisite placement test score or consent of instructor.
Course Rules: Field trip may be required.
General Education Requirements: HU
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SPA 201 Third Semester Spanish
4 cr.
This course stresses the further development and practice of speaking, reading, writing, and listening for students who have had prior experience with the language. This course emphasizes the study of customs, traditions and ideas frequently associated with Spanish-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in Spanish-speaking regions including the US.
Prerequisites: CGS SPA 102 or requisite placement test score or consent of instructor.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SPA 202 Fourth Semester Spanish
4 cr.
Continuation of CGS SPA 201. Further development and practice of speaking, reading, writing, and listening for students with prior experience with the language. Emphasis on customs, traditions and ideas frequently associated with Spanish-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in Spanish-speaking regions including the US.
Prerequisites: CGS SPA 201 or requisite placement test score or consent of instructor.
Course Rules: Field trip may be required.
General Education Requirements: HU
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SPA 205 Fourth Semester Spanish
4 cr.
This course is a continuation of SPA CGS 201. This course stresses the further development and practice of speaking, reading, writing, and listening for students who have had prior experience with the language. This course emphasizes the study of customs, traditions and ideas frequently associated with Spanish-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in Spanish-speaking regions including the US.
Prerequisites: CGS SPA 201 or requisite placement test score or consent of instructor.
Course Rules: Field trip may be required.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CGS SPA 225 Conversation & Composition
3 cr.
Development of written and oral proficiency through systematic exposure to modern cultural developments as found in a variety of contemporary texts. Discussion and composition exercises deal with cultural topics introduced by original authors.
Prerequisites: CGS SPA 205(P) or CGS SPA 207(P) or consent of instructor.
General Education Requirements: HU
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
Chemistry and Biochemistry (CHEM)

CHEM 100 Chemical Science
4 cr. Undergraduate.
Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.
Prerequisites: Math 105(C) or Math 108(C) or Math 116(C) or Level 30 on Math Placement Test.
Course Rules: Not open for cr to students who have cr in Chem 102.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 101 Chemical Science
5 cr. Undergraduate.
Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.
Prerequisites: a score of 1 on the chem placement test, and one of the following: MATH 105(C), MATH 108(C), Math 116(C) or Level 30 on Math Placement Test; or a grade of C or better in CHEM 100(P).
Course Rules: Designed for students in nursing and related fields. Not open for cr to students who have cr in CHEM 341 or CHEM 343; may not serve as a prerequisite for CHEM 341 or CHEM 343.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 102 General Chemistry
5 cr. Undergraduate.
Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 3 hrs lab, 1 hr dis.
Prerequisites: score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or min grade C in Chem 100(P).
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 103 Survey of Biochemistry
5 cr. Undergraduate.
The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab.
Prerequisites: grade of C or better in Chem 101(P).
Course Rules: Designed for students in nursing and related fields. Not open for cr to chem majors; may not serve as a prereq for Chem 341 or 343.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 104 General Chemistry and Qualitative Analysis
5 cr. Undergraduate.
Continuation of Chem 102. 3 hrs lec, 3 hrs lab, 1 hr dis.
Prerequisites: grade C or better in Chem 102(P).
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 105 General Chemistry for Engineering
5 cr. Undergraduate.
Modern principles of chemistry with emphasis on applications in engineering fields.
Prerequisites: score of 1 on chem placement test, Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or in grade C in Chem 100(P).
Course Rules: Not open to those w/cr in Chem 104(ER). Not a prereq for Chem 221, 341, or 343.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 106 Chemistry in the World Around Us--Chemistry for the Non-Science Major
3 cr. Undergraduate.
An introduction to chemistry with an emphasis on outlining how chemistry affects our everyday lives. 3 hrs lec, 2 hrs lab/dis.
Prerequisites: none.
Course Rules: Intended for non-science majors and minors; does not carry cr toward chem or biochem majors or chem minor.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 113 General Chemistry
4 cr. Undergraduate.
Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 1 hr dis.
Prerequisites: score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM MATH 105 or MATH 108; or min grade C in CHEM 100(P).
Course Rules: CHEM 113 and CHEM 114 are equivalent to CHEM 102. A student may not earn credit in both CHEM 113 and CHEM 114, and also CHEM 102.
General Education Requirements: NS+
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 114 General Chemistry Laboratory
1 cr. Undergraduate.
Introductory college chemistry lab. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lab.
Prerequisites: score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM MATH 105 or MATH 108; or min grade C in CHEM 100(P).
Course Rules: CHEM 113 and CHEM 114 are equivalent to CHEM 102. A student may not earn credit in both CHEM 113 and CHEM 114, and also CHEM 102.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 115 General Chemistry and Qualitative Analysis
4 cr. Undergraduate.
Continuation of CHEM 102. 3 hrs lec, 1 hr dis.
Prerequisites: a grade C or better in CHEM 102(P).
Course Rules: CHEM 115 and CHEM 116 are equivalent to CHEM 104. A student may not earn credit in both CHEM 115 and CHEM 116, and also CHEM 104.
General Education Requirements: NS+
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 116 General Chemistry and Qualitative Analysis Laboratory
1 cr. Undergraduate.
Continuation of CHEM 102. 3 hrs lab.
Prerequisites: a grade C or better in CHEM 102(P).
Course Rules: CHEM 115 and CHEM 116 are equivalent to CHEM 104. A student may not earn credit in both CHEM 115 and CHEM 116, and also CHEM 104.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 185 Basic Chemistry for Teachers
3 cr. Undergraduate.
Chemical models, atoms, and molecules; properties of elements; useful chemical reactions; application to elementary education classrooms. 2 hrs lec; 2 hrs lab/dis.
Prerequisites: Math 176(P) or cons instr.
General Education Requirements: NS+
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 194 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2019, Fall 2016, Fall 2015, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 210 Introduction to Fermentation Chemistry
3 cr. Undergraduate.
Concepts of chemistry in the context of fermentation. The ideas of mass balance, equilibrium, rate and catalysis are applicable to fermentation.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 221 Elementary Quantitative Analysis
4 cr. Undergraduate.
Introduction to modern chemical analysis, including volumetric, gravimetric, electrochemical, and chromatographic methods. 2 hrs lec, 6 hrs lab.
Prerequisites: a grade of C or better in Chem 104(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly offered with & counts as repeat of Anthro/BMS/Crm Jst 285.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Course Rules: Jointly-offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 285.
Last Taught: Fall 2019, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 289 Internship in Chemistry, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of chemistry in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in chem; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 311 Introduction to Inorganic Chemistry
3 cr. Undergraduate.
Inorganic chemistry, solid state chemistry, coordination chemistry, main-group chemistry.
Prerequisites: grade of C or better in Chem 104(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 341 Introductory Survey of Organic Chemistry
3 cr. Undergraduate.
Intended for students who expect to take only one semester of organic chemistry.
Prerequisites: grade of C or better in Chem 104(P); conc reg in Chem 342(R).
Course Rules: Not open for cr to students who have credit in Chem 343.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 342 Introductory Organic Chemistry Laboratory
2 cr. Undergraduate.
6 hrs lab.
Prerequisites: a grade of C or better in Chem 104(P); conc reg in 341(R).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 343 Organic Chemistry
3 cr. Undergraduate.
For students who intend to take more than one semester of organic chemistry.
Prerequisites: grade of C or better in Chem 104(P).
Course Rules: Not open for cr to students who have credit in Chem 341.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 344 Organic Chemistry Laboratory
2 cr. Undergraduate.
6 hr lab.
Prerequisites: grade C or better Chem 343(P); conc reg Chem 345(R).
Course Rules: Not open for cr to students who have credit in Chem 342.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 345 Organic Chemistry
3 cr. Undergraduate.
Continuation of Chem 343.
Prerequisites: grade of C or better in Chem 343(P); conc reg Chem 344(R).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 381 Honors Seminar
3 cr. Undergraduate.
Discussion of aspects of the relationship of chemistry and society.
Prerequisites: soph st; Honors 200(P); cons Honors College dir; add'l prereq possible depending on specific topic.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 399 Special Chemical Problems
1-4 cr. Undergraduate.
Directed study or research on topics selected by the instructor.
Prerequisites: Chem 104(P); cons instr.
Course Rules: May be retaken to 7 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 481 Criminalistics
3 cr. Undergraduate.
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.
Prerequisites: jr st; admission to Forensic Sci cert prog; Anthro/Chem/C L Sci/Crm Jst 281(P); Crm Jst 480(P).
Course Rules: Anthro 481, Chem 481, BMS(C L Sci) 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 489 Internship in Chemistry, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of chemistry in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Chem; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 497 Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 497G Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 499 Ad Hoc
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 501 Introduction to Biochemistry
3 cr. Undergraduate/Graduate.
The chemistry of biological systems.
Prerequisites: jr st; grade of C or better in Chem 341(P) or 345(P).
Course Rules: Does not count toward graduate degree in chemistry.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 501G Introduction to Biochemistry
3 cr. Undergraduate/Graduate.
The chemistry of biological systems.
Prerequisites: jr st; grade of C or better in Chem 341(P) or 345(P).
Course Rules: Does not count toward graduate degree in chemistry.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 502 Development of Modern Chemistry
2 cr. Undergraduate/Graduate.
Traces the development of chemistry from ancient to modern times.
Prerequisites: jr st, a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).
Course Rules: Does not count toward graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 502G Development of Modern Chemistry
2 cr. Undergraduate/Graduate.
Traces the development of chemistry from ancient to modern times.
Prerequisites: jr st, a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).
Course Rules: Does not count toward graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 511 Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Introduction to theoretical principles and descriptive chemistry of the elements.
Prerequisites: jr st & grade of C or better in Chem 562(P); or grad st.
Course Rules: Does not count toward graduate degree in Chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 511G Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Introduction to theoretical principles and descriptive chemistry of the elements.
Prerequisites: jr st & grade of C or better in Chem 562(P); or grad st.
Course Rules: Does not count toward graduate degree in Chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 524G Instrumental Analysis
3 cr. Undergraduate/Graduate.
Chemical equilibria, separations, and theory and practice of instrumental measurements.
Prerequisites: jr st; grade of C or better in Chem 221(P) or 223(P).
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 524 Instrumental Analysis
3 cr. Undergraduate/Graduate.
Chemical equilibria, separations, and theory and practice of instrumental measurements.
Prerequisites: jr st; grade of C or better in Chem 221(P) or 223(P).
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 537 Industrial Microbiology and Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques.
Course Rules: Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 537G Industrial Microbiology and Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques.
Course Rules: Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 541 Bioprocess Chemical Engineering
3 cr. Undergraduate.
Technical aspects of biotechnology and fermentation based on reactor design and function.
Prerequisites: jr st; grade of C or better in Chem 501(P).
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 543 Bioprocess Chemical Engineering
3 cr. Undergraduate.
Technical aspects of biotechnology and fermentation based on reactor design and function.
Prerequisites: jr st; grade of C or better in Chem 501(P).
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 543G Bioprocess Chemical Engineering
3 cr. Undergraduate.
Technical aspects of biotechnology and fermentation based on reactor design and function.
Prerequisites: jr st; grade of C or better in Chem 501(P).
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 560 Biophysical Chemistry
3 cr. Undergraduate/Graduate.
General course designed for majors in fields other than chemistry.
Prerequisites: jr st; grade of C or better in Chem 104(P); Math 211(P) or equiv.
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 560G Biophysical Chemistry
3 cr. Undergraduate/Graduate.
General course designed for majors in fields other than chemistry.
Prerequisites: jr st; grade of C or better in Chem 104(P); Math 211(P) or equiv.
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 561 Physical Chemistry I
3 cr. Undergraduate/Graduate.
Primary focus on chemical thermodynamics.
Prerequisites: jr st; grades of C or better in Chem 104(P), Physics 210(P) & 215(P), & Math 233(P), ElecEng 234(R) or Math 234(R).
Course Rules: Does not count toward a graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 561G Physical Chemistry I
3 cr. Undergraduate/Graduate.
Primary focus on chemical thermodynamics.
Prerequisites: jr st; grades of C or better in Chem 104(P), Physics 210(P) & 215(P), & Math 233(P); ElecEng 234(R) or Math 234(R).
Course Rules: Does not count toward a graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 562 Physical Chemistry II
3 cr. Undergraduate/Graduate.
Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry.
Prerequisites: jr st; grade of C or better in Chem 561(P).
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 562G Physical Chemistry II
3 cr. Undergraduate/Graduate.
Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry.
Prerequisites: jr st; grade of C or better in Chem 561(P).
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 563 Physical Chemistry Laboratory
1-2 cr. Undergraduate/Graduate.
Prerequisites: jr st & grade of C or better in Chem 221(P) or 223(P) & Chem 561(P).
Course Rules: Carries grad cr for students other than chem students.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 563G Physical Chemistry Laboratory
1-2 cr. Undergraduate/Graduate.
Prerequisites: jr st & grade of C or better in Chem 221(P) or 223(P) & Chem 561(P).
Course Rules: Carries grad cr for students other than chem students.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 564 Advanced Chemistry Laboratory I
2 cr. Undergraduate.
Modern advanced chemical synthesis techniques.
Prerequisites: grade of C or better in Chem 344(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 564G Advanced Chemistry Laboratory II
2 cr. Undergraduate.
Advanced laboratory for analysis and characterization of chemical compounds.
Prerequisites: grade of C or better in Chem 344(P), 524(P), & 563(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 565 Internship in Forensic Toxicology
1-3 cr. Undergraduate.
Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 565G Internship in Forensic Science
1-3 cr. Undergraduate.
Continuation of Chem 564; course content is largely instrumental analysis.
Prerequisites: jr st & grade of C or better in Chem 563(P) & 564(P).
Course Rules: Carries grad cr for students other than chem students.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 569 Internship in Death Investigation
1-3 cr. Undergraduate.
Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.
Prerequisites: jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2012, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 570 Professional Development Seminar
1-3 cr. Undergraduate.
Continuation of Chem 565; course content is largely professional development.
Prerequisites: jr st; grade of C or better in Chem 565(P).
Course Rules: Carries grad cr for students other than chem students.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 570G Professional Development Seminar
1-3 cr. Undergraduate.
Continuation of Chem 565G; course content is largely professional development.
Prerequisites: jr st; grade of C or better in Chem 565G(P).
Course Rules: Carries grad cr for students other than chem students.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 599 Special Projects in Chemistry
3-5 cr. Undergraduate/Graduate.
Directed study or research on subjects selected by the instructor. For further information consult dept chair.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 599G Special Projects in Chemistry
3-5 cr. Undergraduate/Graduate.
Directed study or research on subjects selected by the instructor. For further information consult dept chair.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 601G Biochemistry: Protein Structure and Function
3 cr. Undergraduate/Graduate.
Cellular synthesis of proteins, protein structure/function, enzyme mechanisms.
Prerequisites: jr st; grades of C or better in Chem 345(P), 501(P), & either 560(C) or 562(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 602G Biochemistry: Cellular Processes
3 cr. Undergraduate/Graduate.
Biosynthesis and metabolism of nucleic acids, structure and replication of DNA, control of gene expression, signal transduction.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 603 Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, and chromatography.
Prerequisites: junior standing; a grade of C or better in CHEM 221(P) or CHEM 223(P); a grade of C or better in CHEM 501(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 603G Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, and chromatography.
Prerequisites: jr st; grade of C or better in Chem 511(P) or cons instr.
May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 604 Biochemistry: Metabolism
3 cr. Undergraduate/Graduate.
Glycolysis, photosynthesis, biosynthesis, metabolism.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 604G Biochemistry: Metabolism
3 cr. Undergraduate/Graduate.
Glycolysis, photosynthesis, biosynthesis, metabolism.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 605G Biochemistry: Metabolism
3 cr. Undergraduate/Graduate.
Glycolysis, photosynthesis, biosynthesis, metabolism.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 606G Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, and chromatography.
Prerequisites: junior standing; a grade of C or better in CHEM 221(P) or CHEM 223(P); a grade of C or better in CHEM 501(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 607 Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, and chromatography.
Prerequisites: jr st & grade of C or better in Chem 511(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 608 Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, and chromatography.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 609G Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, and chromatography.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 610G Introduction to Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed.
Prerequisites: Chem 511(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 611G Physical Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed.
Prerequisites: Chem 511(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 612G Transition Metal and Organometallic Chemistry
3 cr. Undergraduate/Graduate.
Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed.
Prerequisites: Chem 511(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 612 Transition Metal and Organometallic Chemistry
3 cr. Undergraduate/Graduate.
Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed.
Prerequisites: Chem 511(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 613 Main Group Chemistry
3 cr. Undergraduate/Graduate.
Advanced survey of metallic and non-metallic main group elements.
Prerequisites: jr st & grade of C or better in Chem 511(P), or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 613G Main Group Chemistry
3 cr. Undergraduate/Graduate.
Advanced survey of metallic and non-metallic main group elements.
Prerequisites: jr st & grade of C or better in Chem 511(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 614 Bio-Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Inorganic chemistry for biological systems; metaloproteins; coordination chemistry in enzymes.
Prerequisites: jr st; grade of C or better in Chem 511(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 614G Bio-Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Inorganic chemistry for biological systems; metaloproteins; coordination chemistry in enzymes.
Prerequisites: jr st; grade of C or better in Chem 511(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 628 Nuclear and Radiochemistry
3 cr. Undergraduate/Graduate.
Survey of modern nuclear and radiochemistry; emphasis on the interactions of radiation with matter and application in radiation detection and measurement.
Prerequisites: jr st; grades of B or better in Chem 524(P), 561(P), 562(P), & 563(P) or equiv; cons instr for undergrads.
Course Rules: Counts as repeat of Chem 726 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 628G Nuclear and Radiochemistry
3 cr. Undergraduate/Graduate.
Survey of modern nuclear and radiochemistry; emphasis on the interactions of radiation with matter and application in radiation detection and measurement.
Prerequisites: jr st; grades of B or better in Chem 524(P), 561(P), 562(P), & 563(P) or equiv; cons instr for undergrads.
Course Rules: Counts as repeat of Chem 726 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 630 Computational Chemistry
3 cr. Undergraduate/Graduate.
Computer modeling techniques for molecular systems.
Prerequisites: jr st; grade of C or better in Chem 562(P) or cons instr.
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 630G Computational Chemistry
3 cr. Undergraduate/Graduate.
Computer modeling techniques for molecular systems.
Prerequisites: jr st; grade of C or better in Chem 562(P) or cons instr.
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 640G Advanced Survey of Organic Chemistry
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; a grade of C or better in Chem 345(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 647 Physical Methods of Organic Chemistry
3 cr. Undergraduate/Graduate.
Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.
Prerequisites: jr st; a grade of C or better in Chem 345(P), 346(P), 524(P).
Last Taught: Fall 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 647G Physical Methods of Organic Chemistry
3 cr. Undergraduate/Graduate.
Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.
Prerequisites: jr st; a grade of C or better in Chem 345(P), 346(P), 524(P).
Last Taught: Fall 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 661 Intermediate Chemical Thermodynamics
3 cr. Undergraduate/Graduate.
Prerequisites: sr st, a grade of C or better in Chem 562(P).
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 661G Intermediate Chemical Thermodynamics
3 cr. Undergraduate/Graduate.
Prerequisites: sr st, a grade of C or better in Chem 562(P).
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 662 Chemical Kinetics and Dynamics
3 cr. Undergraduate/Graduate.
Present understanding of reaction kinetics and dynamics. Topics range from experimental methods for kinetics measurements to microscopic theories of reaction rates.
Prerequisites: sr st; grade of C or better in Chem 562(P).
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 662G Chemical Kinetics and Dynamics
3 cr. Undergraduate/Graduate.
Present understanding of reaction kinetics and dynamics. Topics range from experimental methods for kinetics measurements to microscopic theories of reaction rates.
Prerequisites: sr st; grade of C or better in Chem 562(P).
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 690 Scientist Career Transitions Seminar
1 cr. Undergraduate.
Preparation of science undergraduates for transition to science-related employment internships.
Prerequisites: soph st; Chem 344(C) & 345(C) or equiv; 3.000 GPA in science courses; cons instr.
Course Rules: Counts as repeat of Chem 489 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 691 Senior Research
1-4 cr. Undergraduate.
Introduction to chemical research. Independent and original study done under the direction of a staff member; communication of results. Recom for Chem majors.
Prerequisites: sr st; cons instr.
Course Rules: Chem 691 & 692 may be retaken to combined 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 692 Senior Thesis
2-6 cr. Undergraduate.
Introduction to chemical research. Independent and original study done under the direction of a staff member. Recom for chem majors.
Prerequisites: sr st; grade of C or better in English 102(P) or score at level 4 on EPT; cons instr.
Course Rules: Chem 691 & 692 may be retaken to combined 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 697 Senior Seminar
1 cr. Undergraduate.
Prerequisites: sr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 701 Topics in Biochemistry
2-4 cr. Graduate.
Selected topics in biochemistry. Two topics, each for 2 cr, will last 1/2 of the semester. Students may enroll in either (2 cr) or both (4 cr). The 3 cr option offers a more complete coverage of a single topic for a full semester.
Prerequisites: grad st; grade of C or better in Chem 501(P) or 601(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 710 Advanced Survey of Inorganic Chemistry
3 cr. Graduate.
Graduate-level treatment of theoretical principles and descriptive chemistry of the elements.
Prerequisites: grad st.
Last Taught: Spring 2010, Fall 2008, Fall 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 711 Topics in Inorganic Chemistry
3 cr. Graduate.
Selected topics of current research interest in inorganic chemistry are discussed in detail.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2015, Fall 2013, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 714 Topics in Analytical Chemistry
3 cr. Graduate.
Selected topics which reflect current advances in analytical chemistry.
Prerequisites: grad st.
Course Rules: May be retaken with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 717 Topics in Physical Chemistry
3 cr. Graduate.
Selected topics of current research interest in physical chemistry are discussed in detail.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2015, Fall 2013, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 718 Topics in Organic Chemistry
2-3 cr. Graduate.
Current topics in organic chemistry, e.g., organometallic compounds, bioorganic chemistry, non-covalent interactions, reaction mechanisms, alkaloid total synthesis or photochemistry. Offered w/1 topic (3cr), w/2 (2cr ea); if two, take one or both.
Prerequisites: grad st; grade of C or better in Chem 345(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 720 Statistical Analysis I
3 cr. Graduate.
Introduction to statistical analysis. Applications to problems in the physical sciences.
Prerequisites: grad st; a grade of C or better in Chem 345(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 721 Statistical Analysis II
3 cr. Graduate.
Continuation of course 720. Regression, experimental design, and multivariate analysis. Applications to research in the physical sciences.
Prerequisites: grad st; a grade of C or better in Chem 345(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 724 Electrochemistry
3 cr. Graduate.
Survey of modern electrochemical theory and applications to measurement of solution concentrations, rate constants, thermodynamic quantities, transport properties, and adsorption phenomena.
Prerequisites: grad st; grade of C or better in Chem 524(P) or 621(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 726 Topics in Analytical Chemistry:
3 cr. Graduate.
Selected topics which reflect current advances in analytical chemistry.
Prerequisites: grad st.
Course Rules: May be retaken with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 740 Advanced Organic Chemistry-Methods in Synthetic Chemistry
3 cr. Graduate.
Discussion of name reactions and other synthetic methods of preparative significance used in organic syntheses. Introduction and modification of functional groups. Recent examples of application from modern organic chemistry.
Prerequisites: grad st; a grade of C or better in Chem 345(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 741 Topics in Organic Chemistry:
2-3 cr. Graduate.
Current topics in organic chemistry, e.g., organometallic compounds, bioorganic chemistry, non-covalent interactions, reaction mechanisms, alkaloid total synthesis or photochemistry. Offered w/1 topic (3cr), w/2 (2cr ea); if two, take one or both.
Prerequisites: grad st; grade of C or better in Chem 345(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 743 Medicinal Chemistry: Drug Discovery/Lead Optimization & DNA as Drug Targets
3 cr. Graduate.
Major principles of drug discovery; focus on nucleic acids as drug targets.
Prerequisites: grad st.
Course Rules: Counts as repeat of Chem 741 w/ Medicinal Chemistry I topic.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 744 Medicinal Chemistry: Pharmacokinetics/Enzymes & Receptors as Drug Targets
3 cr. Graduate.
Principles of drug development; focus on protein drug targets.
Prerequisites: grad st.
Course Rules: Counts as repeat of Chem 741 w/ Medicinal Chemistry II subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 748 Physical Organic Chemistry
3 cr. Graduate.
Application of kinetics and other physical principles to the determination of reaction mechanisms.
Prerequisites: grad st; a grade of C or better in Chem 562(P) & 640(P).
Last Taught: Fall 2019, Fall 2017, Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 762 Topics in Physical Chemistry
3 cr. Graduate.
In-depth discussion of selected topics of current interest in modern physical chemistry.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2008, Spring 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 765 Statistical Thermodynamics
3 cr. Graduate.
Fundamental principles of statistical mechanics, with applications to topics of physiochemical interest.
Prerequisites: grad st; grade of C or better in Chem 661(P).
Last Taught: Fall 2019, Spring 2016, Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 767 Basic Quantum Chemistry
3 cr. Graduate.
Basic postulates of quantum mechanics and consequences. Exact solutions for simple systems. Approximation methods for complex systems. Group theory and applications in organic, inorganic, and physical chemistry.
Prerequisites: grad st; a grade of C or better in Chem 562(P), 564(P), & Math 234(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 769 Surface Chemistry II
3 cr. Graduate.
Discussion of kinetic methods of studying reaction mechanisms with particular emphasis on catalytic reactions.
Prerequisites: grad st; grade of C or better in Chem 768(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 780 Modern Industrial Organic Chemistry
3 cr. Graduate.
Organic chemical processes-comprehensive emphasis on chemistry, polymers (preparation, properties, application), energy aspects, raw material supplies, impact on nation’s and world’s economics.
Prerequisites: grad st.
Course Rules: Recommended for minor in polymer chem.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 781 Pulsed NMR Spectroscopy Theory and Practice
3 cr. Graduate.
Discussion and hands on practice of modern FT NMR approaches applied to analysis of chemical structure and dynamics in organic, inorganic, and biochemical molecules.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 782 Liquid Chromatography-Mass Spectrometry Fundamentals and Applications
3 cr. Graduate.
Discussion and hands on practice of modern mass spectrometry, with a focus on liquid chromatography/mass spectrometry (LC/MS) and LC/tandem MS (LC/MS/MS), as well as ICP-MS.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 798 Scientific Glassblowing
1 cr. Graduate.
Techniques in design and maintenance of scientific glassware including low pressure systems together with consideration of the chemical structure and properties of common glasses.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 900 Chemistry Colloquium
0 cr. Graduate.
Weekly lectures on current research by members of the department and visiting scientists.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr. Required of all Chem grad students.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 912 Graduate Seminar
1 cr. Graduate.
Research problems in chemistry. Weekly papers and reports.
Prerequisites: grad st.
Course Rules: Required of all candidates for advanced degree.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 931 Advanced Seminar in Analytical Chemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in analytical chemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 993(C).
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHEM 932 Advanced Seminar in Biochemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in biochemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 996(C).
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CHEM 933 Advanced Seminar in Inorganic Chemistry  
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in inorganic chemistry. Topics will differ each semester, reflecting current work of particular interest.
**Prerequisites:** grad st & enroll in Chem 994(C).
**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 934 Advanced Seminar in Organic Chemistry  
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in organic chemistry. Topics will differ each semester, reflecting current work of particular interest.
**Prerequisites:** grad st & enroll in Chem 990(C).
**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 935 Advanced Seminar in Physical Chemistry  
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in physical chemistry. Topics will differ each semester, reflecting current work of particular interest.
**Prerequisites:** grad st & enroll in Chem 992.
**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 990 Research: Organic  
1-9 cr. Graduate.
**Prerequisites:** grad st.
**Course Rules:** Retakable.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 991 Research: Chemical Education  
1-9 cr. Graduate.
Research in chemical education.
**Prerequisites:** grad st
**Course Rules:** Retakable.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 992 Research: Physical  
1-9 cr. Graduate.
**Prerequisites:** grad st.
**Course Rules:** Retakable.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 993 Research: Analytical  
1-9 cr. Graduate.
**Prerequisites:** grad st.
**Course Rules:** Retakable.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 994 Research: Inorganic  
1-9 cr. Graduate.
**Prerequisites:** grad st.
**Course Rules:** Retakable.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHEM 996 Research: Biochemical  
1-9 cr. Graduate.
**Prerequisites:** grad st.
**Course Rules:** Retakable.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

Chinese (CHINESE)  

CHINESE 101 First Semester Chinese  
5 cr. Undergraduate.
Beginning Chinese for students with no previous knowledge of the language.
**Prerequisites:** none.
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHINESE 102 Second Semester Chinese  
5 cr. Undergraduate.
Continuation of Chinese 101(Linguis 121).
**Prerequisites:** Chinese 101(Linguis 121)(NP). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHINESE 150 Contemporary Chinese Society and Culture  
3 cr. Undergraduate.
Economics, politics, society, people, culture, and the environment in contemporary Chinese life. Representation, interpretations, and practices of Chinese cultures, traditions, and customs.
**Prerequisites:** none.
**Course Rules:** In English.
**General Education Requirements:** HU
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHINESE 160 A Taste of China: Learning Chinese Culture and Society through Cuisine  
3 cr. Undergraduate.
Cultural, historical, geographical, and sociological influences on Chinese cuisine.
**Prerequisites:** none.
**General Education Requirements:** HU
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Spring 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

CHINESE 192 First-Year Seminar  
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
**Prerequisites:** none.
**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
**General Education Requirements:** HU
**Current Offerings:** https://catalog.uwm.edu/course-search/
CHINESE 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 200 Chinese Calligraphy
3 cr. Undergraduate.
History, development, aesthetics, and appreciation of Chinese calligraphy; in-class, hands-on practice in producing calligraphy; aspects of the fascinating cultural heritage of China.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 201 Third Semester Chinese
5 cr. Undergraduate.
Continuation of Chinese 102(Linguis 122).
Prerequisites: Chinese 102(Linguis 122)(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 202 Fourth Semester Chinese
5 cr. Undergraduate.
Continuation of Chinese 201(Linguis 221).
Prerequisites: Chinese 201(Linguis 221)(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 277 Chinese Discussion Section:
1-2 cr. Undergraduate.
Discussion in Chinese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc).
Prerequisites: Chinese 202(Linguis 223)(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 289 Internship in Chinese, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Chinese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 301 Fifth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 202(Linguis 223).
Prerequisites: Chinese 202(Linguis 223)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 302 Sixth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 301(Linguis 321).
Prerequisites: Chinese 301(Linguis 321)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 320 Contemporary Chinese Societies through Film
3 cr. Undergraduate.
Film as a context for examining issues in contemporary societies of China and Taiwan; emphasis on development of language proficiency.
Prerequisites: Chinese 202(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 330 Chinese Language and Culture
3 cr. Undergraduate.
Chinese language and contemporary culture through various forms of media.
Prerequisites: Chinese 202(P).
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
CHINESE 343 Chinese Martial Arts Fiction
3 cr. Undergraduate.
Martial arts genre fiction from various periods of Chinese history; analysis of the philosophical and societal factors that shaped the genre.
Prerequisites: jr st or cons instr; completion of OWC-A GER
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 401 Seventh Semester Chinese
3 cr. Undergraduate.
Continuation of Chinese 302(Linguis 322).
Prerequisites: Chinese 302(Linguis 322)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 402 Eighth Semester Chinese
3 cr. Undergraduate.
Continuation of Chinese 401.
Prerequisites: Chinese 401(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 441 Business Chinese
3 cr. Undergraduate.
Chinese in cultural contexts of actual business situations; commonly-used commercial terms, phrases, sentence patterns, and cultural background.
Prerequisites: Chinese 302(Linguis 322)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 489 Internship in Chinese, Upper Division
1-6 cr. Undergraduate.
Application of basic principles to Chinese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Summer 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CHINESE 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Chinese studies faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Last Taught: Spring 2020, Spring 2016, Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

Civil & Environmental Engineering (CIV ENG)

CIV ENG 150 Builders for Civilization and Environment
3 cr. Undergraduate.
Explores the role of civil engineering in society through the use of case studies, including water and society, bridges, building and transportation.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Fall 2008, Fall 2007, Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 201 Statics
3 cr. Undergraduate.
Principles of mechanics force systems, equilibrium structures, distributed forces, centroids and friction.
Prerequisites: Math 232(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 202 Dynamics
3 cr. Undergraduate.
Kinematics and kinetics of particles and rigid bodies with applications of Newton’s second law and the principles of work-energy and impulse momentum.
Prerequisites: Civ Eng 201(P), Math 233(C).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 203 Introduction to Solid Mechanics
4 cr. Undergraduate.
Topics in statics and strength of materials, including vector mechanics, equilibrium, structural analysis, internal forces, friction, moment of inertia, centroids, stress, strains, torsion, beam bending, shear and moment diagrams, deflection, and stress transformation.
Prerequisites: MATH 232(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 250 Engineering Surveying
3 cr. Undergraduate.
Horizontal and vertical distance measurement, angles and direction, traverses, errors, control and construction surveys, coordinate systems, land records, and coordinate geometry. Office and field practice.
Prerequisites: soph st, Math 232(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 280 Computer Based Engineering Analysis
3 cr. Undergraduate.
Computer based methods for analysis of data and relationships in engineering practice. Data reliability, experimental design, statistical significance, database systems, curve fitting, interpretation of relationships.
Prerequisites: CompSci 132(P) or one sem H.S. programming; & Math 231(P) or 226(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 303 Strength of Materials
4 cr. Undergraduate.
Stress and strain, torsion, bending of beams, shearing stress in beams, combined stresses, principal stresses, deflections of beams, statically indeterminate members and columns. Lec & lab.
Prerequisites: Civ Eng 201(P) & Math 233(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 311 Introduction to Energy, Environment and Sustainability
3 cr. Undergraduate.
Energy system and resources, environmental system and resources, global climate change, life cycle assessment, green chemistry and materials, sustainable technologies.
Prerequisites: jr st.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 335 Soil Mechanics
3 cr. Undergraduate.
Fundamentals of soil mechanics; soil classification; seepage analysis; principle of effective stress; stress distribution; 1-D consolidation theory; shear strength; laboratory experience.
Prerequisites: jr & admis to an Eng major or grad st; Civ Eng 303(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 360 Introduction to Structural Analysis
3 cr. Undergraduate.
Elementary structural analysis techniques; beams, trusses, statically determinate frames, influence lines; analysis of indeterminate structures by superposition and computer analysis.
Prerequisites: Civ Eng 303(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 372 Introduction to Structural Design
4 cr. Undergraduate.
Intro to design of reinforced concrete, steel, and wood structures; material properties; codes; design for flexure, shear and axial loads; connections.
Prerequisites: jr st, Civ Eng 303(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 401 Intermediate Strength of Materials
3 cr. Undergraduate/Graduate.
Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center; stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, energy methods, laboratory investigation.
Prerequisites: jr st; Civ Eng 303(P).
Last Taught: Fall 2001, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 401G Intermediate Strength of Materials
3 cr. Undergraduate/Graduate.
Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center; stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, energy methods, laboratory investigation.
Prerequisites: jr st, Civ Eng 303(P).
Last Taught: Fall 2001, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 401 Engineering Principles of Water Resources Design
3 cr. Undergraduate/Graduate.
Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies.
Prerequisites: jr st & admis to an Eng major or grad st; MechEng 320(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 411G Engineering Principles of Water Resources Design
3 cr. Undergraduate/Graduate.
Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies.
Prerequisites: jr st & admis to an Eng major or grad st; MechEng 320(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 412 Applied Hydrology
3 cr. Undergraduate/Graduate.
Applied hydrology with emphasis on analysis of rainfall, runoff and streamflow processes, hydrologic forecasting and simulation, urban hydrology, hydrologic design and modelling.
Prerequisites: jr st; Math 233(P) & MechEng 320(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 412G Applied Hydrology
3 cr. Undergraduate/Graduate.
Applied hydrology with emphasis on analysis of rainfall, runoff and streamflow processes, hydrologic forecasting and simulation, urban hydrology, hydrologic design and modelling.
Prerequisites: jr st; Math 233(P) & MechEng 320(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 413 Environmental Engineering
3 cr. Undergraduate/Graduate.
Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities.
Prerequisites: jr st & admis to an Eng major or grad st; MechEng 320(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 413G Environmental Engineering
3 cr. Undergraduate/Graduate.
Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities.
Prerequisites: jr st & admis to an Eng major or grad st; MechEng 320(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 431 Materials of Construction
3 cr. Undergraduate/Graduate.
Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects.
Prerequisites: jr st; Civ Eng 303(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 431G Materials of Construction
3 cr. Undergraduate/Graduate.
Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects.
Prerequisites: jr st; Civ Eng 303(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 456 Foundation Engineering
3 cr. Undergraduate/Graduate.
Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations.
Prerequisites: jr st; Civ Eng 335(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 456G Foundation Engineering
3 cr. Undergraduate/Graduate.
Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations.
Prerequisites: jr st; Civ Eng 335(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 463 Introduction to Finite Elements
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; ElecEng 234(P), Civ Eng 303(P), MechEng 320(C), 311(C) or 321(C).
Course Rules: Not open to students with cr in MechEng 463, which is identical to Civ Eng 463.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 463G Introduction to Finite Elements
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; ElecEng 234(P), Civ Eng 303(P), MechEng 320(C), 311(C) or 321(C).
Course Rules: Not open to students with cr in MechEng 463, which is identical to Civ Eng 463.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 466 Mechanics of Composite Materials
3 cr. Undergraduate/Graduate.
Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures.
Prerequisites: jr st & Civ Eng 303(P)
Course Rules: Civ Eng 466 & MechEng 466 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 466G Mechanics of Composite Materials
3 cr. Undergraduate/Graduate.
Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures.
Prerequisites: jr st & Civ Eng 303(P)
Course Rules: Civ Eng 466 & MechEng 466 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 469 Introduction to Biomechanical Engineering
3 cr. Undergraduate/Graduate.
Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.
Prerequisites: Civ Eng 202(P) & 303 (P); or cons instr.
Course Rules: MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another.
Last Taught: Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 469G Introduction to Biomechanical Engineering
3 cr. Undergraduate/Graduate.
Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.
Prerequisites: Civ Eng 202(P) & 303 (P); or cons instr.
Course Rules: MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another.
Last Taught: Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 480 Software Applications for Civil Engineering
3 cr. Undergraduate.
General knowledge and techniques in using computer software in civil engineering design/ Software packages include Autodesk Civil 3D and Revit Structure.
Prerequisites: jr st, Civ Eng 303.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 490 Transportation Engineering
3 cr. Undergraduate/Graduate.
Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems.
Prerequisites: jr st & admis to an Eng major; Civ Eng 280(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 490G Transportation Engineering
3 cr. Undergraduate/Graduate.
Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems.
Prerequisites: jr st & admis to an Eng major; Civ Eng 280(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 492 Environmental Impact Assessment
3 cr. Undergraduate/Graduate.
Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation.
Prerequisites: sr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 492G Environmental Impact Assessment
3 cr. Undergraduate/Graduate.
Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation.
Prerequisites: sr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 494 Principles of Civil Engineering Design
1 cr. Undergraduate.
Project identification and planning for senior design project; proposals, project management and team procedures. Technical communications. Professional engineering responsibilities. Intended for first semester seniors.
Prerequisites: sr st in Civ Eng: Civ Eng 335(C), 372(C), 411(C), 413(C), & 490(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 495 Senior Design
3 cr. Undergraduate.
Team design project involving application of fundamental civil engineering concepts. Discussion of specifications, contracts and implementation. Written and oral presentations. Intended for second semester seniors.
Prerequisites: Civ Eng 335(P), 372(P), 411(P), 413(P), 490(P), 494(P) or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 499 Ad Hoc:
1-12 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 502 Experimental Stress Analysis
3 cr. Undergraduate/Graduate.
Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models.
Prerequisites: jr st & Civ Eng 303(P).
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 502G Experimental Stress Analysis
3 cr. Undergraduate/Graduate.
Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models.
Prerequisites: jr st & Civ Eng 303(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 511 Water Supply and Sewerage
3 cr. Undergraduate/Graduate.
Resources of water supply quality and quantity requirements. Principles of hydraulic design of water supply and sewerage systems; pumping stations. Principles of sewage disposal. Problems of management involving hydrological, engineering, institutional, legal and economic aspects. Design project.
Prerequisites: jr st; Civ Eng 411(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 511G Water Supply and Sewerage
3 cr. Undergraduate/Graduate.
Resources of water supply quality and quantity requirements. Principles of hydraulic design of water supply and sewerage systems; pumping stations. Principles of sewage disposal. Problems of management involving hydrological, engineering, institutional, legal and economic aspects. Design project.
Prerequisites: jr st; Civ Eng 411(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 521 Water Quality Assessment
3 cr. Undergraduate/Graduate.
Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs.
Prerequisites: sr st; Civ Eng 411(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 521G Water Quality Assessment
3 cr. Undergraduate/Graduate.
Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs.
Prerequisites: sr st; Civ Eng 411(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 555 Sustainable Construction Materials and Technologies
3 cr. Undergraduate/Graduate.
Sustainable construction materials and methodologies related to commercial construction, LEED/Green certifications, material selection.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 555G Sustainable Construction Materials and Technologies
3 cr. Undergraduate/Graduate.
Sustainable construction materials and methodologies related to commercial construction, LEED/Green certifications, material selection.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 560 Intermediate Structural Analysis
3 cr. Undergraduate/Graduate.
Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis.
Prerequisites: jr st; Civ Eng 360(P), 372(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 560G Intermediate Structural Analysis
3 cr. Undergraduate/Graduate.
Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis.
Prerequisites: jr st; Civ Eng 360(P), 372(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 571 Design of Concrete Structures
3 cr. Undergraduate/Graduate.
Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 571G Design of Concrete Structures
3 cr. Undergraduate/Graduate.
Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 572 Design of Steel Structures
3 cr. Undergraduate/Graduate.
Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; frames; serviceability.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 572G Design of Steel Structures
3 cr. Undergraduate/Graduate.
Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; frames; serviceability.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 573 Design of Masonry Structures
3 cr. Undergraduate/Graduate.
Topics in design of masonry structures; materials, loads, design codes, reinforced & unreinforced axial & flexural members, composite & cavity walls, shear walls, seismic requirements.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 573G Design of Masonry Structures
3 cr. Undergraduate/Graduate.
Topics in design of masonry structures; materials, loads, design codes, reinforced & unreinforced axial & flexural members, composite & cavity walls, shear walls, seismic requirements.
Prerequisites: sr st; Civ Eng 360(C), 372(P).
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 574 Design of Prestressed Concrete Structures
3 cr. Undergraduate/Graduate.
Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 574G Design of Prestressed Concrete Structures
3 cr. Undergraduate/Graduate.
Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing.
Prerequisites: sr st; Civ Eng 360(C), 372(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 579 Earthquake Engineering
3 cr. Undergraduate/Graduate.
Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads.
Prerequisites: sr st; Civ Eng 571(P) or 572(P); or cons instr; or grad st.
Course Rules: Counts as repeat of Civ Eng 891 w/same subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 579G Earthquake Engineering
3 cr. Undergraduate/Graduate.
Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads.
Prerequisites: sr st; Civ Eng 571(P) or 572(P); or cons instr; or grad st.
Course Rules: Counts as repeat of Civ Eng 891 w/same subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 580 Engineering Analysis in Applied Mechanics
3 cr. Undergraduate/Graduate.
Engineering analysis of initial and boundary value problems in applied mechanics. Application of various methods to investigate a variety of engineering situations.
Prerequisites: jr st; ElecEng 234(P).
Course Rules: Not open to students with cr in MechEng 580, which is identical to Civ Eng 580.
Last Taught: Fall 1998, Fall 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 580G Engineering Analysis in Applied Mechanics
3 cr. Undergraduate/Graduate.
Engineering analysis of initial and boundary value problems in applied mechanics. Application of various methods to investigate a variety of engineering situations.
Prerequisites: jr st; ElecEng 234(P).
Course Rules: Not open to students with cr in MechEng 580, which is identical to Civ Eng 580.
Last Taught: Fall 1998, Fall 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 590 Urban Transportation Planning
3 cr. Undergraduate/Graduate.
Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques.
Prerequisites: sr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 590G Urban Transportation Planning
3 cr. Undergraduate/Graduate.
Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques.
Prerequisites: sr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 592 Traffic Control
3 cr. Undergraduate/Graduate.
Control of transportation systems with emphasis on traffic engineering principles. Data collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations.
Prerequisites: sr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 592G Traffic Control
3 cr. Undergraduate/Graduate.
Control of transportation systems with emphasis on traffic engineering principles. Data collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations.
Prerequisites: sr st.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 594 Physical Planning and Municipal Engineering
3 cr. Undergraduate/Graduate.
Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities.
Prerequisites: sr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 594G Physical Planning and Municipal Engineering
3 cr. Undergraduate/Graduate.
Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities.
Prerequisites: sr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 596 Transportation Facilities Design
3 cr. Undergraduate/Graduate.
Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required.
Prerequisites: jr st; Civ Eng 490(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 596G Transportation Facilities Design
3 cr. Undergraduate/Graduate.
Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required.
Prerequisites: jr st; Civ Eng 490(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 598 Pavement Analysis and Design
3 cr. Undergraduate/Graduate.
Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation.
Prerequisites: jr st & Civ Eng 335(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 598G Pavement Analysis and Design
3 cr. Undergraduate/Graduate.
Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation.
Prerequisites: jr st & Civ Eng 335(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 610 Introduction to Water and Sewage Treatment
3 cr. Undergraduate/Graduate.
Characteristics of water and sewage. Principles of physical, chemical and biological processes for water and sewage treatment. Design project.
Prerequisites: sr st; Civ Eng 413(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 610G Introduction to Water and Sewage Treatment
3 cr. Undergraduate/Graduate.
Characteristics of water and sewage. Principles of physical, chemical and biological processes for water and sewage treatment. Design project.
Prerequisites: sr st; Civ Eng 413(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 614 Hazardous Waste Management
3 cr. Undergraduate/Graduate.
Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment; design project.
Prerequisites: jr st; Civ Eng 413(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 614G Hazardous Waste Management
3 cr. Undergraduate/Graduate.
Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment; design project.
Prerequisites: jr st; Civ Eng 413(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 616 Computational Hydraulics and Environmental Flows
3 cr. Undergraduate/Graduate.
Numerical analysis applied to fluid flows and transport phenomena. Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc.
Prerequisites: jr sr, Civ Eng 411(P).
Course Rules: Counts as repeat of Civ Eng 691 w/same topic.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 616G Computational Hydraulics and Environmental Flows
3 cr. Undergraduate/Graduate.
Numerical analysis applied to fluid flows and transport phenomena. Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc.
Prerequisites: jr sr, Civ Eng 411(P).
Course Rules: Counts as repeat of Civ Eng 691 w/same topic.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 619 Topics in Civil Engineering:
1-3 cr. Undergraduate/Graduate.
Topics vary. Study of topics in theory and practice of civil engineering. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken to a max of 6 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 691G Topics in Civil Engineering:  
1-3 cr. Undergraduate/Graduate.  
Topics vary. Study of topics in theory and practice of civil engineering.  
Specific topics and any additional prerequisites will be announced in  
Schedule of Classes each time the course is offered.  
Prerequisites: jr st.  
Course Rules: May be retaken to a max of 6 cr.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 699G Independent Study  
1-3 cr. Undergraduate/Graduate.  
Prerequisites: jr st; cons instr.  
Course Rules: May be retaken to max of 6 cr toward the undergraduate degree.  
Last Taught: Fall 2019, Summer 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 708 Fate and Transport of Micro and Nano Particles in the Environment  
3 cr. Graduate.  
Fundamentals governing fate and transport of micro and nano particles,  
e.g. inorganic particles, bacteria, viruses and protozoan in aquatic  
environment and porous media including soil, sand and filtration system.  
Prerequisites: grad st; Civ Eng 411(P) or 413(P) or cons instr  
Last Taught: Spring 2019, Spring 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 710 Industrial Waste Treatment  
3 cr. Graduate.  
Principles and theories of treating industrial wastes. Characterization of  
industries and their wastes. Treatment processes including tertiary  
and advanced wastewater separation techniques. Hazardous wastes  
management. Administration of industrial waste control. Programs.  
Prerequisites: grad st; Civ Eng 521(P) & 610(P) or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 712 Ground Water Flow and Seepage  
3 cr. Graduate.  
Linear and non-linear seepage laws; theoretical models; electro-osmosis  
in soils; analytical solution to steady state problems; numerical solutions  
to transient problems; analytical solutions to transient problems;  
experimental methods and models; design of dewatering systems.  
Prerequisites: grad st; Civ Eng 411.  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 714 Unit Operations in Environmental Engineering  
3 cr. Graduate.  
Unit operations of physicochemical and biological aspects employed  
in water and wastewater treatments. In-situ treatment of contaminated  
groundwater. Theory and development of design criteria.  
Prerequisites: grad st; Civ Eng 610(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 716 Sediment Transport  
3 cr. Graduate.  
Basic equations of sediment; incipient motion, bed forms, suspended  
load, bed load, total load, natural river processes.  
Prerequisites: grad st; Civ Eng 411(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

CIV ENG 717 Open Channel Flow  
3 cr. Graduate.  
Basic equations of continuity, mechanical energy and momentum;  
uniform, gradually varied, and spatially varied flows; hydraulic structures;  
governing equations of unsteady flow and numerical solutions.  
Prerequisites: grad st; Civ Eng 411(P) or equiv.  
Last Taught: Fall 2016, Spring 2010, Fall 2007, Fall 2005.  
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 718 Biological Processes for Water and Wastewater Treatment
3 cr. Graduate.
Biological and engineering principles related to trickling filters, activated
sludge plants, lagoons, rotating biological contactors, aerobic and
anaerobic digesters, nutrient removal and bioremediation.
Prerequisites: grad st; Civ Eng 413(R) or 610(R)
Last Taught: Spring 2020, Spring 2017, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 719 Pollutant Dispersion Process
3 cr. Graduate.
Classical diffusion theories; longitudinal dispersion, vertical and
transverse mixing in free-surface turbulent flow, application to natural
channels.
Prerequisites: grad st; Civ Eng 411(P).
Last Taught: Fall 2018, Spring 2017, Fall 2014, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 721 Advanced Water Analysis
3 cr. Graduate.
Advanced analytical methods for evaluating sources, distribution
patterns, concentrations, and biological effects of pollutants in natural
waters. Tracers, nuclear techniques, organics, metals, bioassays. Lecture
and laboratory.
Prerequisites: grad st; Civ Eng 521(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 725 Finite Element Methods in Engineering
3 cr. Graduate.
Formulation and assembly of finite elements. Tools in numerical analysis,
interpolation, integration. Trusses, beams, plates, two-dimensional
problems. Generalized field problems: heat transfer, fluid flow. Emphasis
on practical application.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2018, Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 726 Mechanical Vibrations
3 cr. Graduate.
Free and forced vibrations of multiple degree of freedom systems using
modern matrix methods.
Prerequisites: grad st; MechEng 475 or equiv.
Course Rules: Not open to students who have cr in MechEng 726, which
is identical to Civ Eng 726.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 731 Properties of Concrete
3 cr. Graduate.
Advanced course in portland cement concrete; proportioning methods,
theories of hardening and setting, properties, prefabricated concrete,
prefabricated concrete, construction methods, light-weight aggregates and
concrete, causes of disintegration, protective treatments, specifications,
cost estimates.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 732 Fatigue in Engineering Materials
3 cr. Graduate.
Influence of repeated stress in engineering design, fatigue testing
machines, and procedures, factors influencing fatigue properties, theories
of fatigue failure.
Prerequisites: Civ Eng 401(P) or cons instr.
Last Taught: Spring 2015, Fall 2012, Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 735 Advanced Soil Mechanics
3 cr. Graduate.
Advanced treatment and application of theories and principles of
soil mechanics; permeability and seepage; elastic theories of stress
distribution; consolidation theories; shearing strength and failure criteria;
plastic equilibrium.
Prerequisites: grad st; Civ Eng 335(P).
Last Taught: Spring 2020, Fall 2016, Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 756 Advanced Foundation Engineering
3 cr. Graduate.
Critical study of actual engineering projects; introduction to existing
design procedures and the basis for foundation recommendations.
Prerequisites: grad st; Civ Eng 456(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 761 Advanced Structural Analysis
3 cr. Graduate.
Analysis of structures utilizing matrix stiffness techniques; material and
geometric nonlinearities, volume changes, extreme loadings.
Prerequisites: grad st; Civ Eng 360(P); Civ Eng 463(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 771 Advanced Concrete Design
3 cr. Graduate.
Advanced topics in design of concrete structures; structural systems &
bracing, two-way slab, walls, construction phase assessment, joints &
ductility, design for fire, seismic design.
Prerequisites: grad st; Civ Eng 571(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 772 Advanced Steel Design
3 cr. Graduate.
Advanced topics in design of steel structures; plate girders, moment
resisting frames, stability & bracing, connections, torsion, seismic design,
fatigue & fracture. Prereq: grad st; Civ Eng 572(P).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 773 Advanced Dynamics
3 cr. Graduate.
General theory of dynamic behavior from the viewpoint of Lagrangian and
Hamiltonian mechanics. Application of energy principles to dynamical
analysis of mechanical systems.
Prerequisites: grad st; MechEng(580) or Civ Eng 580(P); or cons instr.
Course Rules: Not open to students who have cr in MechEng 773, which
is identical.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 774 Shock and Vibration Analysis
3 cr. Graduate.
Dynamic response of mechanical systems to complex shock and vibration conditions; application of the eigenvalue and transform methods of analysis to the solution of engineering problems.
Prerequisites: grad st; MechEng 475(P) & 580(P).
Course Rules: Not open to students who have cr in MechEng 774, which is identical to Civ Eng 774.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 775 Analysis and Design of Bridges
3 cr. Graduate.
Bridge types; loads and AASHTO specifications; analysis and design of superstructures; substructure design; computer applications.
Prerequisites: grad st; Civ Eng 463(P); 571(P); 572(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 777 Design of Multistory Buildings
3 cr. Graduate.
Topics in design of multistory building systems; planning & environmental criteria, loading, analysis, design, construction, lateral systems, foundation, cladding, building service & management.
Prerequisites: grad st; Civ Eng 463(P), 571(P), 572(P).
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 785 Dynamics of Structures
3 cr. Graduate.
Analysis and design of structures subjected to dynamic loads; effects of damping and inelastic action; multi-degree of freedom and continuous systems; numerical techniques; seismic design.
Prerequisites: grad st; Civ Eng 463(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 790 Transportation Systems Design
3 cr. Graduate.
Principles of systems analysis as they relate to the planning, design and operation of transportation systems. Model building, evaluation, systems management.
Prerequisites: grad st; Civ Eng 590(P).
Last Taught: Spring 2019, Fall 2013, Fall 2011, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 792 Methods of Transportation Analysis
3 cr. Graduate.
Mathematical tools useful in analysis of transportation systems. Process of modeling and simulation, matrix techniques, network analysis, statistical analysis, etc. As related to transportation. Use of standard packaged computer programs. Class project may be utilized to develop these skills.
Prerequisites: grad st; CompSci 151(P) or equiv. Civ Eng 590(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 794 Traffic Planning and Operations
3 cr. Graduate.
Planning and design of traffic systems, delay and capacity of signalized intersections, freeway controls, traffic system management and optimization, queues, traffic assignment and simulation.
Prerequisites: grad st; Civ Eng 592(C).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 801 Applied Elasticity
3 cr. Graduate.
Equations of elasticity in two and three dimensions; two dimensional problems in rectangular polar and curvilinear coordinates; torsion of noncircular shafts; bending of prismatic bars.
Prerequisites: grad st; Civ Eng 401(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 804 Theory of Plasticity
3 cr. Graduate.
Yield conditions, stress strain relations; plastic potential, hardening theories, torsion, bending, thick walled spherical and cylindrical shells under internal pressure; plane strain of perfectly plastic material.
Prerequisites: Civ Eng 805(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st.
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Last Taught: Spring 2018, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 891 Advanced Topics in Civil Engineering
1-3 cr. Graduate.
Topics vary. Study of advanced topics of theory and practice of structural engineering. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/
CIV ENG 940 Topics in Transportation:
1-3 cr. Graduate.
Topics vary. Topics and problems of current interest in transportation; readings and review of
Prerequisites: grad st.
Course Rules: recent literature and development of a critical analysis or paper. Subject matter may be student initiated. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered. Retakeable with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog Comm.
Current Offerings: https://catalog.uwm.edu/course-search/

CIV ENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Current Offerings: https://catalog.uwm.edu/course-search/

Classics (CLASSIC)

CLASSIC 101 Words Matter: How Greek and Latin Shape Our Language
3 cr. Undergraduate.
A comprehensive study of the basic Greek and Latin word elements underlying modern English usage and their Indo-European background.
Prerequisites: none.
Course Rules: Not recom for ESL students.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 199, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 170 Classical Mythology
3 cr. Undergraduate.
A survey of Classical myths in the written sources and in artistic representations.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 171 Classical Mythology: An Audio-Visual Supplement
1 cr. Undergraduate.
Slide series depicting the influence of classical myth on art and music reinforcing the material presented in Classic 170.
Prerequisites: Classic 170(C).
Course Rules: Not open for cr to students who have earned 3 or more cr in Classic 170(ER).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 201 Introduction to Greek Life and Literature
3 cr. Undergraduate.
Ancient Greek life and literature, emphasizing the surviving works of earliest authors, Homer and Hesiod.
Prerequisites: none; Classic 170(R).
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 202 Introduction to Roman Life and Literature
3 cr. Undergraduate.
Roman life and literature, emphasizing events before the death of Augustus.
Prerequisites: none; Classic 170(R).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 211 Alexander the Great to Augustus
3 cr. Undergraduate.
An introduction to literature, history, and art in Greek culture from Alexander the Great to Augustus.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 274 Ancient Egyptian Civilization
3 cr. Undergraduate.
Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.
Prerequisites: none.
Course Rules: Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CLASSIC 289 Internship in Classics, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Classics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Classics; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jr s & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 301 The Life and Literature of Classical Athens: Herodotus and Dramatists
3 cr. Undergraduate.
Classical Greek drama and the writings of Herodotus in translation; their historical background.
Prerequisites: jr st; Classic 201(R); grade of C or better in English 102(P) or score level 4 on EPT.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2018, Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 302 War and Politics in Ancient Greece
3 cr. Undergraduate.
Thucydides' history and selections from Plato's works in translation; their historical background.
Prerequisites: jr st; Classic 301(R); grade of C or better in English 102(P) or score of 637 at level 4 on EPT.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 303 The Life and Literature of the Roman Empire
3 cr. Undergraduate.
Major literary works from the early Roman empire in translation; their historical background.
Prerequisites: jr st.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 304 The Graeco-Roman World:
3 cr. Undergraduate/Graduate.
Life and literature (in translation) of the ancient Greco-Roman world.
Prerequisites: jr st; Classic 301(R), 302(R), or 303(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 304G The Graeco-Roman World:
3 cr. Undergraduate/Graduate.
Life and literature (in translation) of the ancient Greco-Roman world.
Prerequisites: jr st; Classic 301(R), 302(R), or 303(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 312 Ancient Epic Oral Traditions
3 cr. Undergraduate.
Epic oral traditions of Greece and other ancient and more modern world-wide traditions.
Prerequisites: jr st.
Course Rules: Counts as repeat of Classic 304 w/similar topic.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 351 Ancient Greek Religion
3 cr. Undergraduate.
Ancient Greek religious practices, surveying textual and archaeological evidence as well as major scholarly work in the field. Knowledge of Ancient Greek is not required.
Prerequisites: jr st; satisfaction of OWC-A; CLASSIC 201(R).
General Education Requirements: HU, OWCB
Last Taught: Fall 2019, Spring 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 350 Ancient Greek Myth and History
3 cr. Undergraduate.
Origins and history of the Hittites; their myths, culture, and connections with ancient Greece, Troy, Egypt, and Assyria.
Prerequisites: jr st.
Course Rules: Counts as repeat of Classic 304 w/same subtitle.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 370 Hittite Myth and History
3 cr. Undergraduate.
Origins and history of the Hittites; their myths, culture, and connections with ancient Greece, Troy, Egypt, and Assyria.
Prerequisites: jr st.
Course Rules: Counts as repeat of Classic 304 w/same subtitle.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
College of Health Sciences (CHS)

CHS 100 New Student Seminar in Health Professions
1-3 cr. Undergraduate.
An overview of the College of Health Sciences, health professions, academic requirements, career development, and strategies for academic and personal success.
Prerequisites: none.
Course Rules: May not be retaken for cr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

Communication (COMMUN)

COMMUN 101 Introduction to Interpersonal Communication
3 cr. Undergraduate.
Basic concepts for understanding communication in interpersonal relationships. Combines a theoretical approach with a skills approach to the study of interpersonal communication.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 103 Public Speaking
3 cr. Undergraduate.
Principles of public address in informative, persuasive and special occasion situations with emphasis on the theory, composition, and presentation of speeches.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 105 Business and Professional Communication
3 cr. Undergraduate.
Analysis and application of communication principles and practices (interpersonal communication, teamwork issues, public speaking, technological communication) fundamental to successful participation in organizational and professional activities.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 390 Egyptian Mythology
3 cr. Undergraduate.
Egyptian myths and ancient religious practices, emphasizing religious thought in Greco-Roman Egypt.
Prerequisites: jr st.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 489 Internship in Classics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of classics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Classic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st. Add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CLASSIC 699 Directed Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Last Taught: Spring 2017, Spring 2011, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 199 Independent Study
1-3 cr. Undergraduate.
Independent study under the supervision of an appropriate faculty or staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2014, Fall 2013, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 200 Introduction to Communication Research
3 cr. Undergraduate.
The purposes and basic processes of communication.
Prerequisites: none
Last Taught: Spring 2012, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 260 Elements of Human Communication Theory
3 cr. Undergraduate.
Theory and research in fundamental concepts, antecedents, consequences, and effects of human communication; emphasis on range of approaches to the study of human communication.
Prerequisites: soph st; Commun 101(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 264 Persuasive Speaking
3 cr. Undergraduate.
Designed specifically to increase students' understanding of and proficiency in various techniques and modes of persuasive speaking.
Prerequisites: Commun 103(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 285 Communicating with Older Adults
3 cr. Undergraduate.
Application of communication research and theory to the understanding of communication with, about, and among older adults.
Prerequisites: none
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 288 Research Practicum
1-3 cr. Undergraduate.
Research experience under the supervision of a member of the Commun faculty.
Prerequisites: Commun 200(P); 3.00 overall gpa; satisfaction of GER English Composition competency req; writ cons instr.
Course Rules: Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.
Last Taught: Spring 2019, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Last Taught: Spring 2013, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 298 Internship in Communication
1-3 cr. Undergraduate.
Field experience in profit/nonprofit organization; course examines professional communication issues.
Prerequisites: 2.0 gpa overall; writ cons internship dir.
Course Rules: May be retaken to 6 cr max. Offered as cr/no cr only.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 300 Interviewers and Interviewing
3 cr. Undergraduate.
Focuses on information-getting interviews. Discussion, practice, and analysis of interviewer effects, setting, question form, sequence, and wording.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 301 Interpersonal Communication Processes
3 cr. Undergraduate.
Focused analysis of the processes involved in face to face communication, includes the examination of the communication variables which define, sustain, or change interpersonal relationships.
Prerequisites: jr st; Commun 101(P); satisfaction of GER English Composition competency req.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 310 Communication in Organizations
3 cr. Undergraduate.
Factors affecting structure and function of communication in organizations. Emphasis on concepts and principles enhancing effective management of communication processes.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 311 Communication and Leadership  
3 cr. Undergraduate.  
Examination of communication related to leadership theory, practice, processes, and outcomes.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 313 Human Communication and Technology  
3 cr. Undergraduate.  
Examination of the actual and potential role of technology in facilitating satisfying communication relationships.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req; or cons instr.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 320 Nonverbal Communication  
3 cr. Undergraduate.  
Reviews theory and research in nonverbal aspects of human communication. Consideration of specific research in such areas as proxemics, kinesics, paralanguage, interpretation of nonverbal messages.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2020, UWinterI 2020, Fall 2019, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 323 Communication in Groups and Teams  
3 cr. Undergraduate.  
Analysis of communication processes in groups and teams; includes examination of theories and research findings; addresses group and team participation and decision-making skills.  
**Prerequisites:** jr st; Comm 105(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Summer 2020, Fall 2019, Summer 2019, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 327 Instructional Communication for Human Resource Trainers  
3 cr. Undergraduate.  
Theory and practice of instructional communication methods used to train employees of profit and nonprofit organizations.  
**Prerequisites:** jr st; Comm 103(P) or 105(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 335 Critical Analysis of Communication  
3 cr. Undergraduate.  
Nature, development, and applications of criticism, with major emphasis on contemporary communication situations.  
**Prerequisites:** jr st; satisfaction of Oral and Written Communication Part A GER.  
**General Education Requirements:** OWCB  
**Last Taught:** Summer 2020, Spring 2020, UWinterI 2020, Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 350 Intercultural Communication  
3 cr. Undergraduate.  
Overview of U.S. intercultural communication, including communication issues for interracial and interethnic communication.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**General Education Requirements:** CD, SS  
**Last Taught:** Summer 2020, Spring 2020, UWinterI 2020, Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 362 Argumentation and Debate  
3 cr. Undergraduate.  
The theory and practice of argumentation with emphasis on critical thinking, argument analysis, and preparation of policy and evaluative arguments.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**General Education Requirements:** HU  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 363 Communication in Human Conflict  
3 cr. Undergraduate.  
Investigation of the relationship between communication and the processes of human conflicts. Focus upon the nature and origin of human conflict and communicative strategies which may be used to manage conflict situations.  
**Prerequisites:** jr st; Comm 101(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Summer 2020, Spring 2020, UWinterI 2020, Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 365 Negotiation Skills Workshop  
3 cr. Undergraduate.  
Simulation-based, interactive workshop on improving student’s understanding of the negotiation process; building communicative effectiveness as a negotiator in various business and personal contexts.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Fall 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 370 Quantitative Research in Communication  
3 cr. Undergraduate.  
Concepts, strategies and methods in the quantitative assessment of problems in the study of human communication as a behavioral science.  
**Prerequisites:** jr st; satisfaction of Quantitative Literacy, Part A GER.  
**General Education Requirements:** QLB  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

COMMUN 372 Qualitative Research in Communication  
3 cr. Undergraduate.  
Concepts, strategies, and methods in the qualitative, social-scientific study of human communication. Emphasis on interviews, focus groups, and participant observation.  
**Prerequisites:** jr st; satisfaction of Oral & Written Communication Part A GER.  
**General Education Requirements:** OWCB  
**Last Taught:** Summer 2019, Summer 2017, Summer 2015.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
COMMUN 380 Honors Seminar
3 cr. Undergraduate.
Topics related to current social problems and communication.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2000, Fall 1997.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 381 Health Communication
3 cr. Undergraduate.
Theory and process of health communication at multiple levels: individual, social network, organizational, community, and societal. Current research in health communication.
Prerequisites: jr st; satisfaction of GER English Composition competency req.; or cons instr.
Last Taught: Summer 2020, UWinterI 2020, Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 401 Communication in Marital and Family Relationships
3 cr. Undergraduate.
Social scientific approach to the study of communication in marital/family relationships. Examination of theory and research concerning communication processes in marital/family relationships.
Prerequisites: jr st; Commun 101(P); satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 402 Gender and Communication
3 cr. Undergraduate.
Course focuses on interactive relationships between gender, communication, and culture; in particular, the ways in which communication creates and perpetuates gendered identities and gendered interaction.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 410 Organizational Communication Technology
3 cr. Undergraduate.
Conceptual and analytical consideration of communication consequences and needs related to technological assimilation and designing work environments.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 413 Rhetoric and the Internet
3 cr. Undergraduate.
Critical exploration and analysis of the internet as a communication phenomenon.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 423 Decision-Making and Creativity
3 cr. Undergraduate.
Key issues in decision making and creativity at various organizational levels and across different decision making domains.
Prerequisites: jr st; satisfaction of GER English Composition competency req.; or cons instr.
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 435 Rhetoric in Western Thought
3 cr. Undergraduate.
A survey of rhetorical theory in western thinking since ancient Greece.
Prerequisites: jr st; Commun 103(P); satisfaction of GER English Composition competency req.
Last Taught: Fall 2018, Fall 2007, Fall 2004, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 436 Recent Rhetorical Theory
3 cr. Undergraduate.
Recent American and European theories of rhetoric as a dimension of human communication.
Prerequisites: jr st; Commun 103(P); satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 440 Contemporary Problems in Freedom of Speech
3 cr. Undergraduate.
Current legal and regulatory issues that involve freedom of speech.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 450 Cross-Cultural Communication
3 cr. Undergraduate.
Theories, research methods, and communication issues in cross-cultural, international interactions.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 462 Communication in the Legal Process
3 cr. Undergraduate.
Theory and research in argumentation and persuasion and application in the legal process.
Prerequisites: jr st; Commun 103(P) or 362(262)(P); satisfaction of GER English Composition competency req.
Last Taught: Fall 2007, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 464 Theory and Practice of Persuasion
3 cr. Undergraduate.
Consideration of principles and methods of persuasion, with practice in the analysis and preparation of persuasive messages.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 472 Rhetoric of Radicalism in the United States
3 cr. Undergraduate.
Rhetoric of radical movements in the United States including the American Revolution, the abolitionist and free love movements, Black Nationalism, women’s liberation, and contemporary radical movements.
Prerequisites: jr st.
Course Rules: Counts as repeat of Commun 651 w/similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 473 African American Public Discourse
3 cr. Undergraduate.
Rhetorical analysis and historical survey of public and persuasive discourse by African Americans from the early nineteenth through the twenty-first century.
Prerequisites: soph st and satisfaction of OWC-A.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 474 Rhetoric of Women’s Rights in the US
3 cr. Undergraduate.
Rhetoric of women’s rights and its relationship to equality and participation.
Prerequisites: jr st.
Course Rules: Counts as repeat of Comm 651 w/similar topic.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 481 Interpersonal Issues in Health Communication
3 cr. Undergraduate.
Theory and practice of health communication at the interpersonal level, including such topics as personal relationships, provider-patient interaction, technology, and interpersonal education and prevention.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Fall 2019, Fall 2018, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; satisfaction of GER English Composition competency req; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; satisfaction of GER English Composition competency req; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; satisfaction of GER English Composition competency req; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 550 International and Global Communication
3 cr. Undergraduate/Graduate.
Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives.
Prerequisites: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 550G International and Global Communication
3 cr. Undergraduate/Graduate.
Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives.
Prerequisites: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 581 Health Communication Interventions
3 cr. Undergraduate/Graduate.
Theories, strategies, and methods in the design of health promotional and disease prevention interventions. Development of ethical and culturally responsive communication strategies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 588 Research Practicum
1-3 cr. Undergraduate.
Advanced research experience under the supervision of a member of the Commun faculty.
Prerequisites: jr st; commun major or minor; 3.00 overall gpa; Commun 200(P), 335(P), or 370(P); satisfaction of GER English Composition competency req; writ cons instr.
Course Rules: Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 597 Practicum in Teaching Communication
1-3 cr. Undergraduate.
Prerequisites: jr st; declared commun major or minor; 3.00 gpa in Commun; satisfaction of GER English Composition competency req; writ cons instr.
Course Rules: May be retaken to 6 cr max, with max of 3 cr from any one faculty member.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 627 Designing and Developing Communication Courses and Programs
3 cr. Undergraduate/Graduate.
Theory/methods in designing/developing communication courses/programs for academic (college)/organizational (training) environments. Students design/develop instructional materials for online and/or onsite delivery.
Prerequisites: jr st; 9 cr Commun 300-level or above; declared Commun or BAOA major; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 627G Designing and Developing Communication Courses and Programs
3 cr. Undergraduate/Graduate.
Theory/methods in designing/developing communication courses/programs for academic (college)/organizational (training) environments. Students design/develop instructional materials for online and/or onsite delivery.
Prerequisites: jr st; 9 cr Commun 300-level or above; declared Commun or BAOA major; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 631 Current Topics in Interpersonal Communication/Conflict Management
3 cr. Undergraduate.
Research-oriented approaches to interpersonal communication/conflict management. Specific topics announced in Schedule of Classes when course is offered.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 641 Current Topics in Organizational/Professional Communication
3 cr. Undergraduate.
Research-oriented approaches to organizational/professional communication. Specific topics announced in Schedule of Classes when course is offered.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 651 Current Topics in Rhetorical/Public Communication
3 cr. Undergraduate.
Research-oriented approaches to rhetorical/public communication. Specific topics announced in Schedule of Classes when course is offered.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2009, Fall 2007, Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 655 Cultural Training and Adjustment
3 cr. Undergraduate/Graduate.
Theories and research related to the role of communication in cultural adjustment processes, cultural training, and evaluation of training.
Prerequisites: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 660 Communication Capstone Seminar:
3 cr. Undergraduate.
Applying theory and principles from across the major to a focused learning experience.
Prerequisites: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.
Course Rules: May not be retaken for cr, but may be repeated for higher grade.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 662 Seminar in Communication:
3 cr. Undergraduate.
Taught in seminar format.
Prerequisites: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.
Course Rules: May not be retaken for cr, but may be repeated for higher grade.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 665 Introduction to Mediation
3 cr. Undergraduate/Graduate.
Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 665G Introduction to Mediation
3 cr. Undergraduate/Graduate.
Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 667 Great American Speakers and Issues
3 cr. Undergraduate/Graduate.
Selected great speakers and their speeches on major issues in American history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 667G Great American Speakers and Issues
3 cr. Undergraduate/Graduate.
Selected great speakers and their speeches on major issues in American history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 672 Communication and Social Order
3 cr. Undergraduate/Graduate.
The role of communication in both maintaining and challenging social structures and hierarchies.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 672G Communication and Social Order
3 cr. Undergraduate/Graduate.
The role of communication in both maintaining and challenging social structures and hierarchies.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 675 Communication in International Mediation and Peacebuilding
3 cr. Undergraduate/Graduate.
The various forms of international mediatory activity employed to bring sustainable peace to areas gripped by ethnic and social conflict.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 675G Communication in International Mediation and Peacebuilding
3 cr. Undergraduate/Graduate.
The various forms of international mediatory activity employed to bring sustainable peace to areas gripped by ethnic and social conflict.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 681 Seminar in Communication in a World of AIDS
3 cr. Undergraduate/Graduate.
Communication issues surrounding education and prevention of HIV infection both in the United States and across the world.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 681G Seminar in Communication in a World of AIDS
3 cr. Undergraduate/Graduate.
Communication issues surrounding education and prevention of HIV infection both in the United States and across the world.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 698 Internship in Communication
3 cr. Undergraduate.
Field experience in a profit/nonprofit organization; course examines professional communication issues.
Prerequisites: jr st; declared Commun major or approved program of study; 9 cr Commun 300-level or above; 2.5 overall gpa; satisfaction of GER English Composition and Math competency reqs; writ cons internship dir.
Course Rules: May be retaken w/chg in organization to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Commun faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept dir of undergrad stds.
Prerequisites: jr st; 2.0 GPA; satisfaction of GER English Composition competency requirement; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Last Taught: Spring 2018, Fall 2015, Fall 2014, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 700 Quantitative Research in Communication
3 cr. Graduate.
Introduction to the methods and techniques of quantitative research in communication, with special focus on problems of experimental and field research.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 701 Critical Analysis of Communication
3 cr. Graduate.
Introduction to the methods and techniques of humanistic research in communication, with special focus on problems of criticism and history.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2017, Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 702 Qualitative Research in Communication
3 cr. Graduate.
Methods and techniques of qualitative research in communication; special focus on problems of discourse analysis and interaction observation.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2018, Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 710 Managerial Communication
3 cr. Graduate.
Designed for organizational communication practitioners; surveys analytic and implementation skills necessary for effective management of communication processes.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 715 Technology for Health Communication
3 cr. Graduate.
Seminar designed to introduce students to both significant theoretical perspectives and empirical studies related to communication technology for health promotion.
Prerequisites: grad st.
Last Taught: Fall 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 727 Seminar in Communication and E-Learning
3 cr. Graduate.
Theoretical and applied issues related to teaching communication within an e-learning environment.
Prerequisites: grad st.
Course Rules: For individuals interested in college teaching/corporate training.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 735 Rhetorical Theory
3 cr. Graduate.
Critical study of various humanistic theories of rhetorical communication. Major emphasis on contemporary theories, trends, and concepts.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2012, Fall 2010, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 750 Theory and Research in Intercultural Communication
3 cr. Graduate.
Major theories and contemporary research in the field of intercultural, cross-cultural, and global communication.
Prerequisites: grad st.
Last Taught: Spring 2019, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 762 Argumentation in Theory and Practice
3 cr. Graduate.
Argumentation theories in a performance-based context to train citizen-scholars. Assumes no prior knowledge of argumentation theories.
Prerequisites: grad st.
Last Taught: Fall 2015, Fall 2012, Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 770 Measurement and Evaluation in Speech Communication
3 cr. Graduate.
Consideration of problems and methods of formulating, constructing, and interpreting tests, measurements, and evaluation procedures related to speech communication.
Prerequisites: grad st; Commun 700(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 772 Rhetorical Leadership and Ethics
3 cr. Graduate.
The practice of responsible leadership from the humanities-based perspective of rhetoric.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 800 Proseminar: The Discipline of Communication
3 cr. Graduate.
The theoretical, conceptual, and pedagogical parameters of communication as a discipline.
Prerequisites: grad st; admission to Commun M.A. Program or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 801 Seminar in Interpersonal Communication
3 cr. Graduate.
Overview of current perspectives and critical analysis of research in verbal and nonverbal aspects of interpersonal communication.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2013, Fall 2010, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 802 Marital and Family Communication
3 cr. Graduate.
Examination of how communication functions to develop, maintain, enrich, or limit family relationships.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 803 Gender and Communication
3 cr. Graduate.
Seminar on interactive relationships between gender, communication, and culture; emphasis on the ways in which communication creates and perpetuates gendered identities and gendered interaction.
Prerequisites: grad st.
Last Taught: Fall 2009, Fall 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 804 Seminar on Sexuality and Communication
3 cr. Graduate.
Formation of and communication about sexuality and sexual issues; connections among media, technology, and interpersonal forms of communication.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 w/similar topic.
Last Taught: Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 805 Seminar on Issues in Interpersonal Communication
3 cr. Graduate.
In-depth study and discussion of application of interpersonal communication research and theory.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 with same subtitle. Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Spring 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 806 Understudied Close Relationships
3 cr. Graduate.
How communication functions to develop, maintain, enrich, or limit understudied close relationships.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Commun 805 w/similar topic.
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 807 Dark Side of Close Relationships
3 cr. Graduate.
Challenging, complicated, stressful, and unpleasant communication in close relationships.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Commun 805 w/similar topic.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 810 Studies of Communication in Organizations
3 cr. Graduate.
Surveys theory and research on communication processes that constitute and maintain organizations. Topics include communication and networks, managerial hierarchy, power, and organizational culture.
Prerequisites: grad st.
Last Taught: Fall 2019, Spring 2016, Fall 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 812 Communication Policy for Organizations
3 cr. Graduate.
Best practices for translating communication laws and regulations into organizational operations, drawing on both social science and the law.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 813 Seminar in Mediated Communication
3 cr. Graduate.
Advanced course focusing on theory and research pertaining to relationships between human communication processes and interactive technologies.
Prerequisites: grad st.
Last Taught: Spring 2019, Spring 2016, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 815 Communication Technologies in Organizations
3 cr. Graduate.
Examination of theory and research addressing the use of technologies in the organizational communication process.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 w/ same topic.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 820 Communication in Customer Service Settings
3 cr. Graduate.
Theory and research addressing communication in customer service settings.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Commun 860 w/similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 823 Seminar in Small Group Communication
3 cr. Graduate.
Examination of theory and research in small group communication: methods, applications, and problems of small group communication.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 827 Seminar in Instructional Communication
3 cr. Graduate.
Theory and practice of teaching communication using face-to-face and online methods and in academic (college) and organizational (training) environments.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 830 Negotiation
3 cr. Graduate.
Theory and research addressing negotiation as fundamentally a communicative process.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 w/ same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 835 Seminar in Contemporary Public Address
3 cr. Graduate.
Observation and analysis of verbal and nonverbal messages, forms, situations, strategies and media in contemporary public communication.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 837 Instructional Communication in the College Classroom
3 cr. Graduate.
Theory and practice of instructional communication in the college classroom; research connected to students’ own teaching development.
Prerequisites: grad st.
Last Taught: Fall 2011, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 850 Seminar in Intercultural Communication
3 cr. Graduate.
Examination of advanced theory and research in intercultural and international communication; methods and problems of intercultural communication research.
Prerequisites: grad st.
Last Taught: Spring 2020, Spring 2018, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 860 Seminar: Issues in Communication  
3 cr. Graduate.  
In-depth study and discussion of application of communication research and theory. Content varies.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 862 Public Deliberation  
3 cr. Graduate.  
Emerging literature on deliberative democracy; ethical, practical, and political possibilities for public argument and decision making.  
Prerequisites: grad st  
Last Taught: Fall 2013, Fall 2011.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 864 Communication and Social Influence  
3 cr. Graduate.  
Advanced theory and experimental studies in persuasion.  
Prerequisites: grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 865 Theory and Practice of Mediation  
3 cr. Graduate.  
Course extends learning about mediator communication competence by exploring professional, ethical and theoretical issues in third party intervention. Students receive advanced mediation training and field experience.  
Prerequisites: grad st; Commun 665(P).  
Last Taught: Spring 2015, Spring 2013, Fall 2009, Fall 2007.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 872 Rhetorics of Constituting Community and Social Controversy  
3 cr. Graduate.  
Advanced theories of promoting and disrupting identification or division and social conflict through rhetoric.  
Prerequisites: grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 873 The Digital Mirror  
3 cr. Graduate.  
Public messages about a wide range of technologies as purposeful statements about our identity as a technoculture and technocitizens.  
Prerequisites: grad st  
Last Taught: Spring 2019, Spring 2015, Fall 2011, Fall 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 874 Rhetoric of Women's Rights in the US  
3 cr. Graduate.  
The rhetorical tradition of women's rights in the U.S. and its use as a lens to reflect on rhetorical theory and criticism.  
Prerequisites: grad st  
Last Taught: Spring 2018, Fall 2013, Spring 2011.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 881 Interpersonal Health Communication  
3 cr. Graduate.  
Examination of theory and research in interpersonal communication in the management of health and illness.  
Prerequisites: grad st  
Course Rules: Counts as repeat of Commun 860 w/ same topic.  
Last Taught: Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 882 The Rhetoric of Kenneth Burke  
3 cr. Graduate.  
Synthesis, analysis, and critique of Kenneth Burke's work on rhetoric and its influences.  
Prerequisites: grad st  
Last Taught: Fall 2014, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 888 Candidate for Degree  
0 cr. Graduate.  
Available for graduate students who must meet minimum credit load requirement.  
Prerequisites: graduate standing.  
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 893 Rhetoric of/and the Internet  
3 cr. Graduate.  
The concept of 'The Internet' in popular culture; opportunities and obstacles the internet presents to rhetorical communication.  
Prerequisites: grad st  
Last Taught: Fall 2019, Fall 2009, Fall 2006.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 900 Philosophy and Practice of Communication  
3 cr. Graduate.  
Philosophical and theoretical perspectives on the scholarly study of human communication.  
Prerequisites: grad st  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 913 Advanced Topics in Group Communication:  
3 cr. Graduate.  
Theory of and research on emerging issues related to the study and teaching of group communication.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 950 Theory Building in Communication and Culture  
3 cr. Graduate.  
The processes of conducting scientific inquiry about communication and culture.  
Prerequisites: grad st; Commun 750(P); Commun 850(P).  
Current Offerings: https://catalog.uwm.edu/course-search/
COMMUN 965 The Discourse of Conflict
3 cr. Graduate.
Conflict talk in various contexts; collection, analysis, and transcription of the discourse of conflict.
Prerequisites: grad st; Commun 665(P), 765 (P), or 865(P)
Last Taught: Fall 2014, Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 971 Meta-Analysis: Practice and Application
3 cr. Graduate.
Meta-analysis as means of quantitative literature summary for social sciences with application to education and health.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 972 w/similar subtitle.
Last Taught: Fall 2017, Fall 2014, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 972 Advanced Methods in Communication Research:
3 cr. Graduate.
Multivariate statistical methods. Advanced and emerging new methodologies for communication research.
Prerequisites: grad st; Commun 700(P), 701(P), 702(P), 770(P); or cons instr
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Spring 2017, Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 973 Topics in Rhetorical Research:
3 cr. Graduate.
In-depth examination of a particular area of rhetorical research, with focus on methodologies; students reflect on epistemic, publication, and professional issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr.
Last Taught: Spring 2020, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 981 Communication and HIV/AIDS
3 cr. Graduate.
Communication issues and challenges facing individuals and agencies surrounding HIV and AIDS in the United States and other countries.
Prerequisites: grad st
Last Taught: Spring 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 990 Research and Thesis
1-12 cr. Graduate.
Production of a thesis under the supervision of student's major professor with consultation of the degree committee.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 998 Communication Internship
1-3 cr. Graduate.
Student applies course work in profit or nonprofit setting; synthesizes course and work experience in graded paper.
Prerequisites: grad st; 12 grad cr Commun or, for mediation interns, 6 grad cr from Mediation Cert course list; writ cons sponsoring agency or organization; cons supervising faculty member & Commun grad prog dir.
Course Rules: Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMMUN 999 Independent Study
1-3 cr. Graduate.
Supervised investigation of a particular topic area either not covered by other communication courses or at a level of sophistication beyond that in other courses.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 3 cr max for M.A. students, and 9 cr max for Ph.D. students.
Last Taught: Summer 2020, Spring 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Communication Sciences and Disorders (COMSDIS)

COMSDIS 210 Survey of Communication Disorders
3 cr. Undergraduate.
A broad overview of speech, language, and hearing disorders. Normal development, adult functions and cultural differences are explored, as well as general approaches to rehabilitation.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 220 Anatomy and Physiology of Speech, Hearing, and Language Mechanisms
4 cr. Undergraduate.
Structures and functions involved in normal speech, hearing, and language.
Prerequisites: Bio Sci 202 (P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 230 Introduction to Phonetics
4 cr. Undergraduate.
Descriptive study of the production and perception of English speech sounds; broad phonetic transcription; introduction to physiological, acoustic, and clinical phonetics. 3 hr Lec, 1 hr Lab/Dis.
Prerequisites: none.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 240 Normal Speech and Language Development
3 cr. Undergraduate.
Intensive study of children's speech and language acquisition and research techniques for investigating children's speech and language behavior. Interrelationship with other development areas also discussed.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
COMSDIS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 250 Interprofessional Communication in the Health Sciences
3 cr. Undergraduate.
Introduction to best-practices in interprofessional communication within the Health Sciences; emphasis on patient-provider interactions, regulations, health literacy, and interprofessional communication.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 350 Clinical Process I: Articulation and Phonology Disorders
3 cr. Undergraduate.
Introduction to the clinical process and its application to the assessment and intervention of articulation and phonology disorders in children.
Prerequisites: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 351 Clinical Process II: Child Language Disorders
3 cr. Undergraduate.
The clinical process and its application to the assessment and intervention of language disorders in children.
Prerequisites: jr st; admis to major; ComSDis 350(NP).
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 380 Bases of Hearing Science
3 cr. Undergraduate.
Consideration of fundamental physical and psychophysical concepts in hearing science and advanced topics in auditory physiology promoting a basic understanding of hearing and hearing measurement.
Prerequisites: ComSDis 220(NP) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 450 Bases of Fluency and Voice Disorders
3 cr. Undergraduate.
Overview of the basic requirements for fluent speech and voice production. Also includes an introduction to the disorders of fluency and voice.
Prerequisites: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 460 Survey of Adult Neurogenic Language and Speech Disorders
3 cr. Undergraduate.
Principles and concepts underlying acquired adult neurogenic language and speech disorders. Topics include aphasia, apraxia, dysarthria, dementia, closed head injury, and right hemisphere disorders.
Prerequisites: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 470 Introduction to Audiology
3 cr. Undergraduate.
Overview of clinical hearing assessment including principles of assessment, instrumentation and calibration, basic audiometry, interpretation of audiometric results, and hearing disorders. Participation in laboratories required.
Prerequisites: jr st; ComSDis 220(NP), 380(NP) or cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 480 Speech Science
3 cr. Undergraduate.
Study of anatomic, physiologic, acoustic and perceptual parameters involved in speech production and perception; exposure to instrumentation for clinical application/research.
Prerequisites: jr st; admis to major; ComSDis 380 or cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 490 Audiologic (Re)Habilitation
3 cr. Undergraduate.
Study of the fundamentals of (re)habilitative audiology. Includes study of current comprehensive audiologic (re)habilitative approaches with pediatric through geriatric populations.
Prerequisites: jr st; ComSDis 470(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 500 Clinical Practice in Speech-Language Pathology
3 cr. Undergraduate.
Initial supervised practicum experience with articulation, phonology, and/or child language disorders.
Prerequisites: jr st; ComSDis 351(P); cons instr.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 520 Counseling in Communication Disorders
3 cr. Undergraduate/Graduate.
Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided.
Prerequisites: jr st; admis to major or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
COMSDIS 520G Counseling in Communication Disorders
3 cr. Undergraduate/Graduate.
Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided.
Prerequisites: jr st; admis to major or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 579 Special Topics in Communication Sciences and Disorders:
1-3 cr. Undergraduate/Graduate.
Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2020, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 579G Special Topics in Communication Sciences and Disorders:
1-3 cr. Undergraduate/Graduate.
Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2020, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 580 Communication Problems of the Older Adult
3 cr. Undergraduate/Graduate.
Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging.
Prerequisites: sr st; ComSDis 460 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 580G Communication Problems of the Older Adult
3 cr. Undergraduate/Graduate.
Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging.
Prerequisites: sr st; ComSDis 460 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 620 Craniofacial Disorders
2 cr. Undergraduate/Graduate.
Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems.
Prerequisites: ComSDis 350(P), 351(P), 480(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 620G Craniofacial Disorders
2 cr. Undergraduate/Graduate.
Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems.
Prerequisites: ComSDis 350(P), 351(P), 480(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 630 Communication Disorders in Multicultural Populations
2 cr. Undergraduate/Graduate.
Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations.
Prerequisites: sr st; cons instr.
Last Taught: Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 630G Communication Disorders in Multicultural Populations
2 cr. Undergraduate/Graduate.
Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations.
Prerequisites: sr st; cons instr.
Last Taught: Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 634G Collaborative Consultation/Teaming-Serving Young Children with Disabilities
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
Prerequisites: jr st.
Course Rules: ExcEduc 634, Occthpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Summer 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 640G Clinical and Research Instrumentation in Communication Sciences & Disorders
2 cr. Undergraduate/Graduate.
Hands-on laboratory experience with several clinically practical and non-invasive instrumentation systems for analyzing, monitoring, documenting normal as well as abnormal articulation, voice and prosody.
Prerequisites: sr st; ComSDis 480(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 640G Clinical and Research Instrumentation in Communication Sciences & Disorders
2 cr. Undergraduate/Graduate.
Hands-on laboratory experience with several clinically practical and non-invasive instrumentation systems for analyzing, monitoring, documenting normal as well as abnormal articulation, voice and prosody.
Prerequisites: sr st; ComSDis 480(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
COMSDIS 650 Communication Assessment and Intervention for Persons with Disabilities
3 cr. Undergraduate/Graduate.
Application of various theories and models of communication assessment and intervention for persons with severe/profound disabilities.
Prerequisites: sr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 650G Communication Assessment and Intervention for Persons with Disabilities
3 cr. Undergraduate/Graduate.
Application of various theories and models of communication assessment and intervention for persons with severe/profound disabilities.
Prerequisites: sr st; cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 660 School-Age Language
2 cr. Undergraduate/Graduate.
Language disorders in older children and adolescents; application of developmental theory to assessment and intervention.
Prerequisites: sr st; cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 660G School-Age Language
2 cr. Undergraduate/Graduate.
Language disorders in older children and adolescents; application of developmental theory to assessment and intervention.
Prerequisites: sr st; cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 661 The Role of the Speech-language Pathologist in Literacy
2 cr. Undergraduate/Graduate.
Language theory related to reading and writing disorders. Speech-language pathologist’s role in assessment and intervention.
Prerequisites: sr st; cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 661G The Role of the Speech-language Pathologist in Literacy
2 cr. Undergraduate/Graduate.
Language theory related to reading and writing disorders. Speech-language pathologist’s role in assessment and intervention.
Prerequisites: sr st; cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 670 Advanced Procedures in Aural Rehabilitation for the SLP
3 cr. Undergraduate/Graduate.
Examination of hearing disorders and their impact on speech and language. Audiogram interpretation, treatment of hearing disorders, and aural rehabilitation techniques for B-3 through geriatric populations.
Prerequisites: senior standing, COMSDIS 470(P); or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 670G Advanced Procedures in Aural Rehabilitation for the SLP
3 cr. Undergraduate/Graduate.
Examination of hearing disorders and their impact on speech and language. Audiogram interpretation, treatment of hearing disorders, and aural rehabilitation techniques for B-3 through geriatric populations.
Prerequisites: senior standing, COMSDIS 470(P); or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 688 Evaluation and Diagnosis in Speech-Language Pathology
2 cr. Undergraduate/Graduate.
The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing.
Prerequisites: sr st; ComSDis 351(P); or cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 688G Evaluation and Diagnosis in Speech-Language Pathology
2 cr. Undergraduate/Graduate.
The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing.
Prerequisites: sr st; ComSDis 351(P); or cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 690 Cognitive Communication Disorders in Adults
2 cr. Undergraduate/Graduate.
Prerequisites: sr st, ComSDis 460, and cons instr; or grad st.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 690G Cognitive Communication Disorders in Adults
2 cr. Undergraduate/Graduate.
Prerequisites: sr st, ComSDis 460, and cons instr; or grad st.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 699 Advanced Independent Study
1-3 cr. Undergraduate.
Individual program of supervised study.
Prerequisites: sr st; cons instr & faculty advisor; completion of advanced independent study form.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
COMSDIS 701 Research Design and Methods in Communication Sciences and Disorders
3 cr. Graduate.
Introduction to strategy, design, and methodology in quantitative research; includes considerations in evaluating and understanding components of research articles, and integrating research into clinical practice.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Summer 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 702 Clinical Phonology and Articulation
2 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 703 Voice Disorders
2 cr. Graduate.
Diagnosis and treatment of hyperfunctional disorders; psychogenic voice disorders; organic diseases, trauma, and congenital disorders of the larynx; resonance disorders; and alaryngeal speech.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 704 Speech Fluency and Stuttering
3 cr. Graduate.
Theory and research related to the nature and treatment of stuttering. Discussion of factors important to the clinical management of fluency in children and adults.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 705 Aphasia in Adults
2 cr. Graduate.
Nature of aphasia and related communication disorders. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 706 Language Assessment and Intervention
3 cr. Graduate.
Application of various theoretical models and research perspectives to the assessment and treatment of children with language impairments.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 709 Evaluation and Management of Swallowing Disorders
3 cr. Graduate.
Study of normal and abnormal swallowing across the lifespan, with emphasis on etiologies, clinical and instrumental evaluation techniques, and management.
Prerequisites: grad st; ComSDis 712(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 710 Motor Speech Disorders
3 cr. Graduate.
Basic neurological substrates of the dysarthrias and apraxia, differential diagnosis and treatment of acquired and developmental communication disorders associated with apraxia and dysarthria.
Prerequisites: grad st; ComSDis 703(P) & 712(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 711 Applied Speech Science
3 cr. Graduate.
Advanced study of physiological, acoustical, and perceptual perspectives of normal and abnormal speech production mechanisms; laboratory experience with speech science instrumentation for research/clinical application.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of ComSDis 801.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 712 Acquired Neurogenic Communication Disorders in Adults
3 cr. Graduate.
Nature of acquired neurogenic communication disorders, including aphasia, TBI, RHD and dementia. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 713 Degenerative Cognitive Communication Disorders in Older Adults
2 cr. Graduate.
Nature of healthy cognitive aging and cognitive and communicative disorders of dementia. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 715 Assessment and Intervention in Augmentative and Alternative Communication
3 cr. Graduate.
Application of current research in augmentative and alternative communication (AAC) for assessment, prescription of AAC systems, and intervention planning for individuals with severe communication disorders.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 717 Special Populations in Communication Disorders
2 cr. Graduate.
Seminar reviewing the current literature on selected populations of individuals with communication disorders and the implications of this literature on clinical practice.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
COMSDIS 720 Advanced Clinical Practice in Speech-Language Pathology  
1-3 cr. Graduate.  
Supervised clinical practice with different speech and language problems in children and adults.  
**Prerequisites:** grad st; cons instr  
**Course Rules:** Counts as a repeat of ComSDis 902. Retakable as necessary to fulfill competency requirements.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 721 The Clinical Process  
1 cr. Graduate.  
Analysis of the clinical process with application to clients with different speech-language disorders.  
**Prerequisites:** grad st  
**Last Taught:** Fall 2020, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 725 Speech/Language Services in Educational and Medical Environments  
2 cr. Graduate.  
Methods and professional issues related to the speech-language pathologist employed in the educational and medical environments.  
**Prerequisites:** grad st, ComSDis 709(C) or cons instr.  
**Last Taught:** Summer 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 726 Speech-Language Pathology Externship in Medical Environments  
6 cr. Graduate.  
Supervised clinical experience in medical and rehabilitation settings.  
**Prerequisites:** grad st; ComSDis 709(P); ComSDis 725(P); cons instr & grad advisor.  
**Course Rules:** Counts as a repeat of COMSDIS 903. May be repeated to 12 cr max.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 727 Speech-Language Pathology Externship in Educational Environments  
6 cr. Graduate.  
Supervised clinical experience in educational environments.  
**Prerequisites:** grad st; ComSDis 660(P) or 706(P); ComSDis 725(P); cons instr & grad advisor.  
**Course Rules:** Counts as repeat of ComSDis 905. May be repeated to 12 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 728 Instrumentation Laboratory  
1 cr. Graduate.  
Hands-on experience with speech science instrumentation for analysis of voice, prosody, and resonance.  
**Prerequisites:** grad st; ComSDis 703(C) or cons instr.  
**Course Rules:** Counts as repeat of ComSDis 908.  
**Last Taught:** Spring 2008, Spring 2007, Fall 2006, Spring 2006.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 770 Clinical Practice in Audiologic Assessment  
3 cr. Graduate.  
Supervised clinical experience at Community Audiology Services, West Allis, WI. Activities include audiologic assessment and (re)habilitation with children and adults (adult emphasis).  
**Prerequisites:** grad st; ComSDis 670(521); cons instr.  
**Course Rules:** Counts as repeat of ComSDis 906.  
**Last Taught:** Spring 2010, Fall 2009, Summer 2009, Spring 2009.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 771 Clinical Practice in Audiologic (Re)Habilitation  
2-3 cr. Graduate.  
Supervised experience in audiologic (re)habilitation with pediatric or adult clients at on-campus or community sites.  
**Prerequisites:** grad st; ComSDis 670(521) & 706 (for pediatric placements); cons instr.  
**Course Rules:** Counts as repeat of ComSDis 907. May be repeated to 4 cr max.  
**Last Taught:** Summer 2020, Fall 2019, Summer 2019, Spring 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 784 Professional Portfolio Development I  
1 cr. Graduate.  
Students are guided through the second (working) review of their professional development portfolios.  
**Prerequisites:** grad st  
**Last Taught:** Fall 2019, Fall 2018, Summer 2018, Fall 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 785 Professional Portfolio Development II  
1 cr. Graduate.  
Students are guided through the final process of designing a professional development portfolio.  
**Prerequisites:** grad st; ComSDis 784(P).  
**Last Taught:** Summer 2020, Spring 2020, Summer 2019, Spring 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 790 Research and Thesis  
1-6 cr. Graduate.  
Independent research and writing under the supervision of a graduate faculty member.  
**Prerequisites:** grad st; cons instr.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 791 Research Experience in Communication Sciences and Disorders  
1-3 cr. Graduate.  
Supervised research in communication sciences and disorders under the direction of an approved mentor.  
**Prerequisites:** grad st; cons instr.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

COMSDIS 799 Independent Studies  
1-3 cr. Graduate.  
Independent pursuit of a creative project designed by the student and supervised by a faculty or instructional academic staff member.  
**Prerequisites:** grad st; cons grad advisor.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
COMSDIS 802 Seminar in Applied Phonology:
1 cr. Graduate.
Specific topic and any additional prerequisites announced in the Timetable each time the course is offered. May be repeated w/chg in topic to 7 cr max.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 804 Seminar in Stuttering and Fluency:
1 cr. Graduate.
Specific topic and any additional prerequisites announced in the Timetable each time the course is offered.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated w/chg in topic to 7 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMSDIS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

Comparative Literature (COMPLIT)

COMPLIT 133 Contemporary Imagination in Literature and the Arts
3 cr. Undergraduate.
Introduction to comparative literature, focusing on the study of world literatures and their relations to other arts, and to cultural and social currents.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 135 Experiencing Literature in the 21st Century:
3 cr. Undergraduate.
Critical study of literary forms (e.g. romance, comedy, short story) and their connections with other arts and media, such as cinema, TV, and music.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 199 Independent Study
1-6 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 207 Global Literature from Antiquity to the 1600s:
3 cr. Undergraduate.
Literary analysis through a survey of world literature from antiquity through the 1600s.
Prerequisites: none.
Course Rules: May not be retaken for cr.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 208 Global Literature from the 17th Century to the Present:
3 cr. Undergraduate.
Literary analysis through a survey of world literature from the 1600s to the present.
Prerequisites: none.
Course Rules: May not be retaken for cr.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 230 Literature and Society:
3 cr. Undergraduate.
Relationships between literature and aspects of society, e.g., philosophical movements; history; gender, race, class, or sexuality.
Prerequisites: none. CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 231 Literature and Religion:
3 cr. Undergraduate.
A close study of the interrelationship of literature and religion across a wide historical spectrum.
Prerequisites: none. CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2018, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 232 Literature and Politics:
3 cr. Undergraduate.
Multiple ways literature and politics shape and influence one another, with particular focus on links between literary and political representation.
Prerequisites: CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2009, Spring 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPLIT 233 Literature and Film:
3 cr. Undergraduate.
Themes, styles, and ideology in cinematic and literary texts.
Prerequisites: CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 289 Internship in Comparative Literature, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of comparative literature in a business, organizational, educational, political, or other appropriate settings.
Prerequisites: CompLit 100- or 200-level course; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 293 Literature and Science:
3 cr. Undergraduate.
Dehumanization of mankind by technology as theme for changing literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 1999.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 309 Great Works of Modern Literature:
3 cr. Undergraduate/Graduate.
Literature of the twentieth and twenty-first centuries, with emphasis on theme, movement, trend, genre, or mode.
Prerequisites: jr st; CompLit 207(R) or 208(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 316 World Cinema:
3 cr. Undergraduate.
National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.
Prerequisites: jr st or English 290(P); satisfaction of OWC-A.
Course Rules: Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 320 Mediaeval Literature and Culture:
3 cr. Undergraduate/Graduate.
Major genres, themes, and figures of the Middle Ages through representative literary works, devotional writings, visual art, architecture, and other examples of cultural production.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 320G Mediaeval Literature and Culture:
3 cr. Undergraduate/Graduate.
Major genres, themes, and figures of the Middle Ages through representative literary works, devotional writings, visual art, architecture, and other examples of cultural production.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 321 Renaissance Literature and Culture:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures, tenets, aspects, influences, and trends in Renaissance literature through representative literary works, visual art, architecture, and other examples of cultural production.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 321G Renaissance Literature and Culture:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures, tenets, aspects, influences, and trends in Renaissance literature through representative literary works, visual art, architecture, and other examples of cultural production.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPLIT 340 Studies in Literary Genres and Modes:  
3 cr. Undergraduate/Graduate.  
Literary genres and modes from at least one international cultural context.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Spring 2020, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 340G Studies in Literary Genres and Modes:  
3 cr. Undergraduate/Graduate.  
Literary genres and modes from at least one international cultural context.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 350 Topics in Comparative Literature:  
3 cr. Undergraduate/Graduate.  
One or more areas of comparative literature across periods, genres, or regions.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 350G Topics in Comparative Literature:  
3 cr. Undergraduate/Graduate.  
One or more areas of comparative literature across periods, genres, or regions.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2020, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 360 Seminar in Literature and Cultural Experience:  
3 cr. Undergraduate/Graduate.  
How culture is expressed in literary works with specific emphasis on how dominant and marginalized groups are represented in literature.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2020, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 360G Seminar in Literature and Cultural Experience:  
3 cr. Undergraduate/Graduate.  
How culture is expressed in literary works with specific emphasis on how dominant and marginalized groups are represented in literature.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2020, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 362 Transnational Asian Cinemas:  
3 cr. Undergraduate/Graduate.  
Critical study of the cinemas of Asia, their film masters, avant-garde genres, and movements in relation to world cinema culture.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2016, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 362G Transnational Asian Cinemas:  
3 cr. Undergraduate/Graduate.  
Critical study of the cinemas of Asia, their film masters, avant-garde genres, and movements in relation to world cinema culture.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Spring 2016, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 363 Chinese Literature in the Global Context:  
3 cr. Undergraduate/Graduate.  
Modern or contemporary Chinese literature; focus on a period, theme, genre, or movement in relation to literary cultures of other countries and regions or world events.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2016, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 363G Chinese Literature in the Global Context:  
3 cr. Undergraduate/Graduate.  
Modern or contemporary Chinese literature; focus on a period, theme, genre, or movement in relation to literary cultures of other countries and regions or world events.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2016, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 365 Literatures and Cultures of the Americas:  
3 cr. Undergraduate/Graduate.  
Comparative study of the literatures and cultural expressions of three or more national, ethnic, or linguistic traditions within North and South America and the Caribbean.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2019, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 365G Literatures and Cultures of the Americas:  
3 cr. Undergraduate/Graduate.  
Comparative study of the literatures and cultural expressions of three or more national, ethnic, or linguistic traditions within North and South America and the Caribbean.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2019, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 381 Honors Seminar:  
3 cr. Undergraduate.  
Critical study of a problem in comparative literary relations.  
Prerequisites: soph st; Honors 200(P); cons Honors College dir.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 410 Classical Backgrounds of Modern Literature:  
3 cr. Undergraduate/Graduate.  
Influences of classical literature and art upon modern literature.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/
COMPLIT 410G Classical Backgrounds of Modern Literature:
3 cr. Undergraduate/Graduate.
Influences of classical literature and art upon modern literature.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 457 Topics in French and Francophone Studies in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.
Prerequisites: junior standing or consent of instructor.
Course Rules: COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.
Last Taught: Summer 2020, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 457G Topics in French and Francophone Studies in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.
Prerequisites: junior standing or consent of instructor.
Course Rules: COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.
Last Taught: Summer 2020, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 461 Film-Fiction Interaction:
3 cr. Undergraduate/Graduate.
Growth and development of film in conjunction with literary devices (narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual influences of literary and cinematic arts.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 461G Film-Fiction Interaction:
3 cr. Undergraduate/Graduate.
Growth and development of film in conjunction with literary devices (narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual influences of literary and cinematic arts.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 463 Literary Criticism: Major Authors
3 cr. Undergraduate/Graduate.
The development of critical theories from Plato to the present.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 463G Literary Criticism: Major Authors
3 cr. Undergraduate/Graduate.
The development of critical theories from Plato to the present.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 464G Seminar in Comparative Literary Criticism:
3 cr. Undergraduate/Graduate.
Principles and theories of literary criticism in a given period; major approaches to literature.
Prerequisites: jr st, completion of OWC-A; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 464G Seminar in Comparative Literary Criticism:
3 cr. Undergraduate/Graduate.
Principles and theories of literary criticism in a given period; major approaches to literature.
Prerequisites: jr st, completion of OWC-A; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 489 Internship in Comparative Literature, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of comparative literature in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in CompLit; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPLIT 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 533 Seminar in Trends in Modern Literature:
3 cr. Undergraduate/Graduate.
Development of important trends, ideas, and forms of world literature, and their contributions to cultural modernity.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 533G Seminar in Trends in Modern Literature:
3 cr. Undergraduate/Graduate.
Development of important trends, ideas, and forms of world literature, and their contributions to cultural modernity.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a CompLit faculty or instructional academic staff member. For further information, consult CompLit prog coord.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 704 Seminar in Cultural Studies:
3 cr. Graduate.
Investigation of cultural phenomena in their socio-historical contexts and in their symbolization in folklore, literature, and art. Specific topics and any additional prereqs announced in the Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: CompLit 704 & MALLT 704 are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 707 Seminar in Methods of Literary Analysis:
3 cr. Graduate.
Two or more theoretical and methodological approaches to literature, with application to selected literary texts. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: CompLit 707 & MALLT 707(701) are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 789 Graduate Internship in Comparative Literature
1-31 cr. Graduate.
Application of advanced principles of comparative literature in a business, organizational, educational, political, cultural, or other appropriate setting. Retakable to 6 cr max.
Prerequisites: grad st; 3.0 GPA; cons supervising faculty member.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPLIT 820 Translation Theory
3 cr. Graduate.
The role of translation in the development of languages, cultures, and societies; cultural and ideological forces shaping translations; contemporary theories of translation.
Prerequisites: grad st.
Course Rules: CompLit 820 & Trnsltn 820 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

**Computer Science (COMPSCI)**

COMPSCI 101 Introduction to PC Application Software
3 cr. Undergraduate.
Introduction to software applications of the personal computer, including word processing, desktop publishing, spreadsheets, and databases.
Prerequisites: none.
Course Rules: Not open to CompSci students for cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 111 Introduction to Unix
1 cr. Undergraduate.
Introduction to basic user skills for Unix operating systems. File system structure and access control. Basic user commands. Text editing. Internet utilities.
Prerequisites: none.
Last Taught: Fall 2010, Fall 2009, Spring 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 112 Introduction to the Internet and the World Wide Web
3 cr. Undergraduate.
Survey of the technologies that enable common Internet applications and their security/privacy issues. Topics include HTTP, TCP/IP, DNS, email protocols, search engines, encryption, digital signatures and malware.
Prerequisites: none.
Last Taught: Fall 2012, Fall 2011, Fall 2009, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 113 Introduction to Web Document Production
3 cr. Undergraduate.
An introduction to the computer languages used in World Wide Web documents. Design principles; techniques for form processing and inclusion of multimedia content.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 132 Introduction to Computers and Programming
3 cr. Undergraduate.
How computers work; communicating with computers; introductory programming in a high-level language; elementary problem solving.
Prerequisites: Level 30 on Math Placement Test or Math 105(C).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 140 Introduction to the Computer Science Laboratories
1 cr. Undergraduate.
Survey of the programming tools available in the Computer Science laboratory environment.
Prerequisites: CompSci 201(C)
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 150 Survey of Computer Science
3 cr. Undergraduate.
A survey of computer science. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, and computability.
Prerequisites: none.
Course Rules: Counts as repeat of CompSci 299 with similar topic.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 151 Introduction to Scientific Programming in Fortran
3 cr. Undergraduate.
Design and implementation of computer programs in fortran; stress will be placed on applications to different fields of science and engineering.
Prerequisites: Math 231(C) or 226(C).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 160 Introduction to Computer Game Design and Programming
3 cr. Undergraduate.
An overview of computer game history; design concepts and considerations; implementation using a modern software development platform, such as GameMaker.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 202 Introductory Programming Using Python
3 cr. Undergraduate.
Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.
Prerequisites: Counts as repeat of CompSci 290 with similar topic. Pre-req: Level 30 on Math Placement Test, or a grade of C or better in Math 105 or 108.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 240 Introduction to Engineering Programming
3 cr. Undergraduate.
Problem solving with structured programming techniques using an engineering oriented programming language, such as MATLAB, including control structures, functions, arrays and matrices.
Prerequisites: Math Placement Level 40 or Math 116(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 241 C Programming for Embedded Systems
3 cr. Undergraduate.
Problem solving with structured programming techniques, using the C programming language; Topics include using Arrays & Pointers; Memory Management; Unions, Structures; Files & Low Level IO; Process’s & Inter-process Communication.
Prerequisites: C or better in CompSci 240(P)
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 250 Introductory Computer Programming
3 cr. Undergraduate.
Problem solving with structured programming techniques using an object-oriented programming language, including control structures, functions, arrays, vectors, and pre-defined objects.
Prerequisites: Math Placement level 30.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 251 Intermediate Computer Programming
3 cr. Undergraduate.
Problem solving with objects. Writing classes. Use of standard data structures. Basic software development skills including text analysis tools, debugging, and configuration management.
Prerequisites: Math Placement Level 40 or Math 116(P) or Math 211(P); C or better in CompSci 250(201)(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 290 Introductory Topics in Computer Science:
1-3 cr. Undergraduate.
Lectures on new introductory material in computer science. Variable-content course.
Prerequisites: specific courses dependent on topic.
Course Rules: May be retaken to max of 6 cr w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 315 Introduction to Computer Organization and Assembly Language Programming
3 cr. Undergraduate.
Introduction to number systems, arithmetic and Boolean operations. Digital computer organization. A specific computer system, assembly and machine language programming.
Prerequisites: Math Placement Level 40 or Math 116(P) or Math 211(P); CompSci 250(201)(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 317 Discrete Information Structures
3 cr. Undergraduate.
Introductory discussion of logic, proof techniques, sets, functions, relations, combinatorics, probability, and graphs.
Prerequisites: Math Placement Level of 35 or higher, or a grade of C or better in COMPSCI 290 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/
Current Offerings: COMPSCI 241, or COMPSCI 250, or consent of instructor.

and libraries.

Important topics and application in machine learning, including deep
learning. Provides hands-on experience with machine learning software
and libraries.

Prerequisites: a grade of C or better in CompSci 317(P) or Math 341(P).

Course Rules: Jointly offered with & count as repeat of Math 318.


Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 37 Real World Programming

3 cr. Undergraduate.

Introduction to the application programmer interface for a modern
operating system. Overview of mechanisms for object oriented
programming and memory management

Prerequisites: C or better in CompSci 251(P)

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 351 Data Structures and Algorithms

3 cr. Undergraduate.

Programming in a structured, high-level, object-oriented language.
Implementation of data structures and algorithms and their application.

Prerequisites: Math Placement Level 40 or Math 116(P) or 211(P); C or
better in CompSci 251(P).

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 361 Introduction to Software Engineering

3 cr. Undergraduate.

Introduction to core topics of software engineering including
requirements analysis, object-oriented design, testing, and project
management. Overview of ethical and social issues in computing.

Prerequisites: C or better in CompSci 351(P), satisfaction of GER English
Composition competency req.

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 395 Social, Professional, and Ethical Issues

3 cr. Undergraduate.

The social, professional and ethical issues that arise in the context of
professional computing.

Prerequisites: soph st or cons instr.

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 411 Machine Learning and Applications

3 cr. Undergraduate/Graduate.

Important topics and application in machine learning, including deep
learning. Provides hands-on experience with machine learning software
and libraries.

Prerequisites: completion of one of the following: COMPSCI 202,
COMPSCI 241, or COMPSCI 250, or consent of instructor.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 411G Machine Learning and Applications

3 cr. Undergraduate/Graduate.

Important topics and application in machine learning, including deep
learning. Provides hands-on experience with machine learning software
and libraries.

Prerequisites: completion of one of the following: COMPSCI 202,
COMPSCI 241, or COMPSCI 250, or consent of instructor.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 417 Introduction to the Theory of Computation

3 cr. Undergraduate/Graduate.

Introduction to formal languages, grammars and automata. Finite state
automata, pushdown automata, turing machines. Regular, context-free
recursive and recursively enumerable languages. Decidability.

Prerequisites: jr st; grade of C or better in CompSci 317(P) or grade of C or
better in Math 341(P).

Last Taught: Spring 2020, Fall 2019.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 417G Introduction to the Theory of Computation

3 cr. Undergraduate/Graduate.

Introduction to formal languages, grammars and automata. Finite state
automata, pushdown automata, turing machines. Regular, context-free
recursive and recursively enumerable languages. Decidability.

Prerequisites: jr st; grade of C or better in CompSci 317(P) or grade of C or
better in Math 341(P).

Last Taught: Spring 2020, Fall 2019.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 422 Introduction to Artificial Intelligence

3 cr. Undergraduate/Graduate.

Introduction to core techniques and broad survey of AI. Topics include:
Lisp, heuristic search, knowledge representation, planning, vision,
learning.

Prerequisites: jr st; C or better in CompSci 317(217)(P); &
CompSci351(252)(P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 422G Introduction to Artificial Intelligence

3 cr. Undergraduate/Graduate.

Introduction to core techniques and broad survey of AI. Topics include:
Lisp, heuristic search, knowledge representation, planning, vision,
learning.

Prerequisites: jr st; C or better in CompSci 317(217)(P); &
CompSci351(252)(P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 423 Introduction to Natural Language Processing

3 cr. Undergraduate/Graduate.

Introduction to natural language processing programs and an overview
of the field. Topics include syntactic frameworks, parsing, semantics,
interpretation, and applications.

Prerequisites: jr st; C or better in CompSci 351(P).

Last Taught: Spring 2019, Fall 2017.

Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 423G Introduction to Natural Language Processing

3 cr. Undergraduate/Graduate.

Introduction to natural language processing programs and an overview
of the field. Topics include syntactic frameworks, parsing, semantics,
interpretation, and applications.

Prerequisites: jr st; C or better in CompSci 351(P).

Last Taught: Spring 2019, Fall 2017.

Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 425 Introduction to Data Mining
3 cr. Undergraduate/Graduate.
Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs)
Prerequisites: jr st; CompSci 251(P), Math 221(P) or Math 232(P)
Course Rules: Counts as repeat of CompSci 657 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 425G Introduction to Data Mining
3 cr. Undergraduate/Graduate.
Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs)
Prerequisites: jr st; CompSci 251(P), Math 221(P) or Math 232(P)
Course Rules: Counts as repeat of CompSci 657 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 431 Programming Languages Concepts
3 cr. Undergraduate/Graduate.
Examination of abstract features of languages. Study of syntactic and semantic models; design and programming in procedural, object-oriented, functional and logical languages. Implementation methods.
Prerequisites: jr st; grade of C or better in CompSci 351(252)(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 431G Programming Languages Concepts
3 cr. Undergraduate/Graduate.
Examination of abstract features of languages. Study of syntactic and semantic models; design and programming in procedural, object-oriented, functional and logical languages. Implementation methods.
Prerequisites: jr st; grade of C or better in CompSci 351(252)(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 443 Intelligent User Interfaces and Usability Assessment
3 cr. Undergraduate.
Critical reading and discussion of scientific literature on the principles, methods, and current research in intelligent user interfaces including applications, architectures, and evaluation.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 444 Introduction to Text Retrieval and Its Applications in Biomedicine
3 cr. Undergraduate/Graduate.
Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.
Prerequisites: jr st; CompSci 351(P) or HCA 442(P).
Course Rules: Jointly offered with & counts as repeat of HCA 444, CompSci 744, & HCA 744.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 444G Introduction to Text Retrieval and Its Applications in Biomedicine
3 cr. Undergraduate/Graduate.
Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.
Prerequisites: jr st; CompSci 351 (P) or HCA 442(P).
Course Rules: Jointly offered with & counts as repeat of HCA 444, CompSci 744, & HCA 744.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 458 Computer Architecture
3 cr. Undergraduate/Graduate.
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.
Prerequisites: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).
Course Rules: Jointly offered with & counts as repeat of ElecEng 458.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 458G Computer Architecture
3 cr. Undergraduate/Graduate.
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.
Prerequisites: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).
Course Rules: Jointly offered with & counts as repeat of ElecEng 458.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 459 Fundamentals of Computer Graphics
3 cr. Undergraduate/Graduate.
Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping.
Prerequisites: jr st; Math 232(P); CompSci 251(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 459G Fundamentals of Computer Graphics
3 cr. Undergraduate/Graduate.
Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping.
Prerequisites: jr st; Math 232(P); CompSci 251(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 469 Introduction to Computer Security
3 cr. Undergraduate/Graduate.
Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols.
Prerequisites: jr st; C or better in both CompSci 317(217)(P) & 251(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 469G Introduction to Computer Security
3 cr. Undergraduate/Graduate.
Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols.
Prerequisites: jr st; C or better in both CompSci 317(217)(P) & 251(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 481 Server-side Internet Programming
3 cr. Undergraduate/Graduate.
Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.
Prerequisites: jr st; one of COMPSCI 113 (P), INFOST 320 (P), or ART 324 (P); C or better in COMPSCI 202(P), COMPSCI 361(P) or COMPST 702(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 481G Server-side Internet Programming
3 cr. Undergraduate/Graduate.
Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.
Prerequisites: jr st; one of COMPSCI 113 (P), INFOST 320 (P), or ART 324 (P); C or better in COMPSCI 202(P), COMPSCI 361(P) or COMPST 702(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 482 Rich Internet Applications
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; CompSci 361(P) or 481(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 482G Rich Internet Applications
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; CompSci 361(P) or 481(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 511 Symbolic Logic
3 cr. Undergraduate/Graduate.
First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.
Prerequisites: jr st & either Philos 212(P) or 6 cr Math at the 300-level or above; or grad st.
Course Rules: CompSci 511, Math 511, & Philos 511 are jointly offered & count as repeat of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 511G Symbolic Logic
3 cr. Undergraduate/Graduate.
First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.
Prerequisites: jr st & either Philos 212(P) or 6 cr Math at the 300-level or above; or grad st.
Course Rules: CompSci 511, Math 511, & Philos 511 are jointly offered & count as repeat of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 520 Computer Networks
3 cr. Undergraduate/Graduate.
Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network reliability and security.
Prerequisites: jr st; CompSci 315(215)(P) or CompSci 458(P) or ElecEng 367(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 520G Computer Networks
3 cr. Undergraduate/Graduate.
Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network reliability and security.
Prerequisites: jr st; CompSci 315(215)(P) or CompSci 458(P) or ElecEng 367(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 522 Computer Game Design
3 cr. Undergraduate/Graduate.
Design of rules, environments, rewards, and punishments, Game metrics, including artificial intelligence in games, Puzzle generation, Automatic design, Humanness test, Influence maps, Diversity, Unpredictability.
Prerequisites: jr st; grade of C or better in CompSci 317(P).
Course Rules: Counts as repeat of CompSci 657 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 522G Computer Game Design
3 cr. Undergraduate/Graduate.
Design of rules, environments, rewards, and punishments, Game metrics, including artificial intelligence in games, Puzzle generation, Automatic design, Humanness test, Influence maps, Diversity, Unpredictability.
Prerequisites: jr st; grade of C or better in CompSci 317(P).
Course Rules: Counts as repeat of CompSci 657 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 530 Computer Networks Laboratory
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; CompSci 520(P).
Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 530G Computer Networks Laboratory
3 cr. Undergraduate/Graduate.
Experimentation with Wired and Wireless Computer Networks Design.
Data Link and MAC Protocols, LANs, WANs, Routing, Transport Layer Protocols, Congestion Control, Network Security, Network Management.
Prerequisites: jr st; CompSci 520(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 535G Algorithm Design and Analysis
3 cr. Undergraduate/Graduate.
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.
Prerequisites: junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P), a grade of C or better in COMPSCI 317(P); and COMPSCI 317(P) or both MATH 341(P) and MTHSTAT 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 535G Algorithm Design and Analysis
3 cr. Undergraduate/Graduate.
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.
Prerequisites: junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P), a grade of C or better in COMPSCI 317(P); and COMPSCI 317(P) or both MATH 341(P) and MTHSTAT 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 536 Software Engineering
3 cr. Undergraduate/Graduate.
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.
Prerequisites: jr st; grade of C or better in CompSci 251(P).
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 536G Software Engineering
3 cr. Undergraduate/Graduate.
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.
Prerequisites: jr st; grade of C or better in CompSci 251(P).
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 537 Introduction to Operating Systems
3 cr. Undergraduate/Graduate.
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.
Prerequisites: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 537G Introduction to Operating Systems
3 cr. Undergraduate/Graduate.
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.
Prerequisites: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 530G Computer Networks Laboratory
3 cr. Undergraduate/Graduate.
Experimentation with Wired and Wireless Computer Networks Design.
Data Link and MAC Protocols, LANs, WANs, Routing, Transport Layer Protocols, Congestion Control, Network Security, Network Management.
Prerequisites: jr st; CompSci 520(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 535G Algorithm Design and Analysis
3 cr. Undergraduate/Graduate.
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.
Prerequisites: junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P), a grade of C or better in COMPSCI 317(P); and COMPSCI 317(P) or both MATH 341(P) and MTHSTAT 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 535G Algorithm Design and Analysis
3 cr. Undergraduate/Graduate.
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.
Prerequisites: junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P), a grade of C or better in COMPSCI 317(P); and COMPSCI 317(P) or both MATH 341(P) and MTHSTAT 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 536 Software Engineering
3 cr. Undergraduate/Graduate.
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.
Prerequisites: jr st; grade of C or better in CompSci 251(P).
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 536G Software Engineering
3 cr. Undergraduate/Graduate.
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.
Prerequisites: jr st; grade of C or better in CompSci 251(P).
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 537 Introduction to Operating Systems
3 cr. Undergraduate/Graduate.
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.
Prerequisites: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 537G Introduction to Operating Systems
3 cr. Undergraduate/Graduate.
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.
Prerequisites: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 530G Computer Networks Laboratory
3 cr. Undergraduate/Graduate.
Experimentation with Wired and Wireless Computer Networks Design.
Data Link and MAC Protocols, LANs, WANs, Routing, Transport Layer Protocols, Congestion Control, Network Security, Network Management.
Prerequisites: jr st; CompSci 520(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 535G Algorithm Design and Analysis
3 cr. Undergraduate/Graduate.
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.
Prerequisites: junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P), a grade of C or better in COMPSCI 317(P); and COMPSCI 317(P) or both MATH 341(P) and MTHSTAT 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 535G Algorithm Design and Analysis
3 cr. Undergraduate/Graduate.
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.
Prerequisites: junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P), a grade of C or better in COMPSCI 317(P); and COMPSCI 317(P) or both MATH 341(P) and MTHSTAT 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 536 Software Engineering
3 cr. Undergraduate/Graduate.
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.
Prerequisites: jr st; grade of C or better in CompSci 251(P).
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 536G Software Engineering
3 cr. Undergraduate/Graduate.
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.
Prerequisites: jr st; grade of C or better in CompSci 251(P).
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 537 Introduction to Operating Systems
3 cr. Undergraduate/Graduate.
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.
Prerequisites: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 537G Introduction to Operating Systems
3 cr. Undergraduate/Graduate.
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.
Prerequisites: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 557 Introduction to Database Systems
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; CompSci 215(P) & 251(P) or equiv.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 557G Introduction to Database Systems
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; CompSci 315(215)(P) & 251(P) or equiv.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 581 Web Languages and Standards
3 cr. Undergraduate.
Introduction to languages and standards for Web applications, including markup, schema, style, transformation, and metadata languages. Document programming interfaces. Emphasis on programming language principles.
Prerequisites: jr st; CompSci 431(P) & 417(R).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 595 Capstone Project
4 cr. Undergraduate.
Students will integrate their knowledge of the undergraduate computer science curriculum by implementing a significant computer science team project.
Prerequisites: sr st, CompSci 351 (P), CompSci 361 (P), and credit in at least 6 credits of 400 or higher CompSci or ElecEng courses.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 599 Senior Thesis
3 cr. Undergraduate.
Independent scholarly research in Computer Science supervised by a faculty member.
Prerequisites: sr st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 620 Undergraduate Seminar in Algorithms:
1 cr. Undergraduate.
Variable topics seminar in algorithms.
Prerequisites: COMPSCI 535(P).
Course Rules: Retakable to 6 cr max with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 654 Introduction to Compilers
3 cr. Undergraduate.
Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation.
Prerequisites: jr st; CompSci 431(P), 655(C).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 655 Compiler Implementation Laboratory
3 cr. Undergraduate/Graduate.
Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization.
Prerequisites: Prereq. jr st, CompSci 431(P); 654(C) or 754(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 655G Compiler Implementation Laboratory
3 cr. Undergraduate/Graduate.
Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization.
Prerequisites: Prereq. jr st, CompSci 431(P); 654(C) or 754(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 657G Topics in Computer Science:
1-4 cr. Undergraduate/Graduate.
Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 657 Topics in Computer Science:
1-4 cr. Undergraduate/Graduate.
Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 658 Topics in Applied Computing:
1-4 cr. Undergraduate.
Lectures on recent advances in applied computing. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr by undergraduates.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 699G Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr by undergraduates.
Current Offerings: https://catalog.uwm.edu/course-search/
**COMPSCI 700 CEAS Graduate Seminar**  
1-3 cr. Graduate.  
Seminar in professional ethics, oral and written communication,  
contemporary social issues, career development, time management, and  
laboratory safety.  
**Prerequisites:** grad st  
**Course Rules:** Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700,  
MatlEng 700 & MechEng 700 are jointly offered and count as repeats of  
one another  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 704 Analysis of Algorithms**  
3 cr. Graduate.  
Introduction to concrete complexity theory and efficient algorithms. Fast  
data structure and graph algorithms, matrix multiplication, algebraic and  
numeric algorithms, reducibilities and np-completeness. Exponential and  
non-elementary lower bounds.  
**Prerequisites:** grad st, CompSci 217(P) & 535(P).  
**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Fall 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 708 Scientific Computing**  
3 cr. Graduate.  
Fundamental algorithms and practical issues of scientific computing,  
including Monte Carlo simulations, data fitting, fast Fourier transform,  
optimization, numerical integration & differentiation, parallel computing,  
selected biomedical applications.  
**Prerequisites:** grad st  
**Course Rules:** Not open to students who have cr in ElecEng 710, which is  
identical to CompSci 710.  
**Last Taught:** Fall 2019, Spring 2018, Spring 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 710 Artificial Intelligence**  
3 cr. Graduate.  
AI programming, search techniques game playing, knowledge  
representation, knowledge acquisition, expert systems, selected topics  
from learning. Natural language understanding, vision and robotics.  
**Prerequisites:** grad st, CompSci 252(P) & 535(P).  
**Course Rules:** Not open to students who have cr in ElecEng 710, which is  
identical to CompSci 710.  
**Last Taught:** Fall 2019, Spring 2018, Spring 2017, Fall 2014.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 711 Introduction to Machine Learning**  
3 cr. Graduate.  
Introduction to machine learning techniques and applications, including  
optimal classification, regression, support vector machines, boosting,  
deep learning, and clustering.  
**Prerequisites:** grad st  
**Course Rules:** ElecEng 711 & CompSci 711 are jointly offered; they count  
as repeats of one another.  
**Last Taught:** Spring 2020, Spring 2019, Fall 2017, Spring 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 712 Image Processing**  
3 cr. Graduate.  
This course covers the materials required to process and enhance  
photographic images, remote sensor multispatial scanner data and  
others. Topics include transform techniques, recorders, discriminate  
function, and associated hardware.  
**Prerequisites:** grad st  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 713 Computer Vision**  
3 cr. Graduate.  
Fundamental issues and current research in computer vision. Topics in  
early or low-level vision, intermediate vision or perceptual organization,  
and high-level vision or object recognition.  
**Prerequisites:** grad st; ElecEng 410(P) or cons instr.  
**Course Rules:** Jointly offered w/ and counts as a repeat of ElecEng 713.  
**Last Taught:** Fall 2005.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 714 Computational Geometry**  
3 cr. Graduate.  
Special data structures and algorithmic techniques for representing  
and manipulating geometric objects, such as points, lines and polygons.  
Applications to vlsi design and robotics.  
**Prerequisites:** grad st; CompSci 535(P).  
**Last Taught:** Fall 2012, Spring 2010, Fall 2006, Fall 2004.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 718 Advanced Computer Graphics: Modeling and Animation**  
3 cr. Graduate.  
Advanced graphics topics on mesh processing, illumination models, ray-  
tracing, and volumetric data visualization; popular animation approaches  
such as keyframes, particles, fluids and rigid bodies.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 720 Computational Models of Decision Making**  
3 cr. Graduate.  
Theoretical foundations and practical problems of formulating and  
constructing computational models of decision making.  
**Prerequisites:** basic course in Probability or Statistics.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

**COMPSCI 722 Artificial Intelligence Planning Techniques**  
3 cr. Graduate.  
Algorithms and representations for classical and more expressive  
planners, applications of planning. search control techniques, study and comparison of a variety of  
planners, applications of planning.  
**Prerequisites:** grad st; Comp Sci 535(P).  
**Last Taught:** Fall 2011, Spring 2008, Spring 2006, Spring 2005.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
COMPSCI 723 Natural Language Processing
3 cr. Graduate.
Principles and problems of natural language processing with emphasis on recent advances and open problems. Topics: lexicons, parsing, interpretation, discourse structure, generation, and collaborative interfaces.
Prerequisites: grad st; CompSci 422(P) or 710(P).
Course Rules: Not open to students with cr in CompSci 423.
Last Taught: Spring 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 724 Distributed Algorithms
3 cr. Graduate.
Identification of canonical problems in distributed computing, design and analysis of algorithms to solve these problems. Formal proof techniques and impossibility results.
Prerequisites: grad st; CompSci 517(P), 535(P), or 523(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 725 Robot Motion Planning
3 cr. Graduate.
Configuration space, C-obstacles, sampling-based algorithms, potential fields, coverage, hierarchical motion planning, human control, relaxation, moving or deformable obstacles, multirobot motion planning, metrics, outdoor planning.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 729 Real-Time Operating Systems
3 cr. Graduate.
Fundamentals of real-time operating systems with emphasis on scheduling and resource management.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 730 Advanced Computer Networks
3 cr. Graduate.
Network architecture, protocols, routing, congestion control, traffic management, ATM, optical networks, TCP/IP, LANs, WANs, QOS, wireless and mobile networks, mobility management, security, multimedia, network management.
Prerequisites: CompSci 520 (P).
Last Taught: Fall 2019, Fall 2014, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 732 Type Systems for Programming Languages
3 cr. Graduate.
Lambda calculus, simple types, record types, subtypes, polymorphic types, type reconstruction, universal types, bounded quantification, higher-order types.
Prerequisites: grad st; CompSci 431(P) & 654(P).
Last Taught: Fall 2019, Fall 2016, Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 737 Software Project Management
3 cr. Graduate.
Concepts and techniques for management of large software projects. Life cycle models; team organization; cost estimation and budgeting; schedule and risk management; software metrics.
Prerequisites: grad st; CompSci 361(P) or equivalent
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 738 Program Analysis for Software Engineering
3 cr. Graduate.
Static techniques for determining run-time properties of a program: data-flow analysis, abstract interpretation.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 743 Intelligent User Interfaces
3 cr. Graduate.
Principles, methods, and current research in intelligent user interfaces including applications, architectures, knowledge representation, and evaluation.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 744 Text Retrieval and Its Applications in Biomedicine
3 cr. Graduate.
Fundamental issues and current research in text retrieval, text classification and their biomedical applications; Programming and use of indexing, query processing, and document retrieval methods.
Prerequisites: grad st; COMPSCI 351(P) or HCA 442 (P)
Course Rules: Not open to students who have cr in HCA 744, COMPSCI 444, or HCA 444.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 747 Principles & Practices of User Interface Design
3 cr. Graduate.
Principles and practices of user interface design for desktop, web, and mobile applications: interaction principles; UI design elements; user-centered design process and practices.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 754 Compiler Construction and Theory
3 cr. Graduate.
Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation.
Prerequisites: grad st.
Course Rules: Not open to those who have cr in CompSci 654.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 755 Information and Coding Theory
3 cr. Graduate.
Information measures, entropy, source coding, channel codes, channel capacity, error correcting codes, linear codes, convolutional codes, arithmetic codes, encoding and decoding algorithms.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 757 Data Base Organization and File Structure
3 cr. Graduate.
Introduction to automatic information organization and retrieval. Dictionary construction and operation, statistical and syntactic operations, performance evaluation of retrieval systems, design of query languages, models of database systems, database security.
Prerequisites: grad st; CompSci 217(P) & 535(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 758 Advanced Computer Architecture
3 cr. Graduate.
Advanced topics in computer architecture including pipeline processing, multiple and parallel processing systems, performance enhancement issues and VLSI computing structures.
Prerequisites: grad st; CompSci 458(NP) or ElecEng 458(NP).
Course Rules: Not open to students who have cr in ElecEng 758, which is identical to CompSci 758.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 759 Data Security
3 cr. Graduate.
Protection of data in computer and communication systems, cryptography, classical one key and public key cryptosystems, database protection, operating system security.
Prerequisites: grad st; CompSci 217(P) & 536(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 760 Computer Systems Performance Evaluation
3 cr. Graduate.
Performance measurement and tools, workload characterization, markov models, queueing theory, simulation, benchmarks, data analysis, parallel systems performance analysis.
Prerequisites: grad st; CompSci 458(P) or ElecEng 458(P).
Course Rules: Not open to students who have cr in ElecEng 760, which is the same as CompSci 760.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 761 Software Testing and Verification
3 cr. Graduate.
Software testing techniques: test case generation, test oracles, regression testing, structural testing, test coverage, mutation testing, and model-based testing. Testing for object-oriented and distributed software. Security testing.
Prerequisites: grad st; CompSci 361(P) or equivalent
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 762 Fault-Tolerant Computing
3 cr. Graduate.
Faults in digital circuits, fault detection, fault location, system reconfiguration or repair, system recovery, design for testability, self-checking circuits, fault-tolerant interconnection networks, systems level fault-diagnosis, fault-tolerant software.
Prerequisites: grad st; ElecEng 354(P).
Course Rules: Not open to students with cr for ElecEng 762.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 763 Advanced Operating Systems
3 cr. Graduate.
Survey of operating systems and their applications. Topics include: multi-user operating systems, resource allocation, memory management, device drivers, file systems, and security.
Prerequisites: grad st; CompSci 458(NP) or ElecEng 458(NP).
Course Rules: Retakable w/chg in topic to 9 cr max. Specific topics may be jointly-offered w/Philos.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 780 Multimedia Systems
3 cr. Graduate.
Survey of principles and applications of multimedia computer systems. Media fundamentals. Networking, architecture, software engineering, and user interface issues.
Prerequisites: CompSci 537(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 790 Advanced Topics in Computer Science:
3 cr. Graduate.
Discussion of special advanced topics in theoretical as well as applied areas in computer science.
Prerequisites: grad st; addl prereqs depending on topic.
Course Rules: Retakable w/chg in topic to 9 cr max. Specific topics may be jointly-offered w/Philos.
Last Taught: Fall 2013, Fall 2010, Spring 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 805 Randomized Algorithms; Pseudorandom Numbers
3 cr. Graduate.
Prerequisites: CompSci 704(P) CompSci 523(R).
Last Taught: Fall 2013, Fall 2010, Spring 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 810 Knowledge Representation
3 cr. Graduate.
Study of the design and properties of formalisms for representing knowledge in computational systems. Topics include: first-order logic, nonmonotonic logic, uncertainty, time, space, beliefs, plans.
Prerequisites: grad st; CompSci 710(P).
Last Taught: Fall 2014, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 854 Advanced Compiler Techniques
3 cr. Graduate.
Details of compiler construction: syntax theory, attribute grammars, implementing advanced language features, optimization
Prerequisites: grad st; CompSci 654(P) or 754(P)
Last Taught: Fall 2018, Fall 2015, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
COMPSCI 859 Advanced Cryptography and Security Protocols
3 cr. Graduate.
Elliptic curve cryptography, AES, cryptanalysis, secret sharing, zero knowledge proofs, provable security.
Prerequisites: grad st; CompSci 469(P) & CompSci 535(P), or CompSci 759(P)
Last Taught: Spring 2012, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 870 Medical Informatics Seminar
1 cr. Graduate.
Presentations by medical informatics affiliated faculty and invited speakers. Graduate students may present their work or published research from recent medical informatics journals or conferences.
Prerequisites: grad st.
Course Rules: Meets once every two weeks for 100 minutes.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Summer 2020, Spring 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 899 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPSCI 701 Mathematical & Computing Fundamentals for IT Professionals
3 cr. Graduate.
Introductory discussion of logic and reasoning techniques, discrete structures, combinatorics, probability, and their applications to IT.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 702 Software Development in Python
3 cr. Graduate.
Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 703 Software Engineering Principles
3 cr. Graduate.
Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in computing.
Prerequisites: CompSt 702 or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 750 Problem Solving with Object-Oriented Programming
3 cr. Graduate.
Problem solving with object-oriented programming language. Topics include arrays, strings, classes, standard data structures, graphical user interfaces, exceptions, files, debugging, and configuration management.
Prerequisites: Previous programming experience such as CompSt 702(P), CompSci 240(P), or CompSci 250(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 751 Data Structures and Algorithms
3 cr. Graduate.
Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application.
Prerequisites: CompSt 750(P) or CompSci 251(R).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 790 Advanced Topics in Computer Studies:
3-9 cr. Graduate.
Discussion of special advanced topics in the study of computing. Retakable with change in topic to 9 cr max.
Prerequisites: grad st; add'l prereqs depending on topic.
Current Offerings: https://catalog.uwm.edu/course-search/
Conservation and Environmental Sciences (CES)

CES 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 201 Introduction to Conservation and Environmental Science
3 cr. Undergraduate.
Relations between human populations and resource depletion, pollution and ecosystem disturbance; search for solutions. Discussion section includes some community activities with environmental organization. 2 hrs lec, 1 hr dis
Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 289 Internship in Environmental Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in CES; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 290 Seminar: Cool Power to Slow Global Warming
3 cr. Undergraduate/Graduate.
Climate change - myth? science? Global warming causes; energy for sustainability; non-renewable (coal, oil, nuclear power), renewable (sun, wind, hydro, biomass, biogas) sources; predictions for 2050.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 1984.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 451 Field Methods in Conservation
3 cr. Undergraduate/Graduate.
Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.
Prerequisites: jr st; Bio Sci 310(P) or equiv or cons instr.
Course Rules: Jointly offered with and counts as repeat of Bio Sci 451.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 451G Field Methods in Conservation
3 cr. Undergraduate/Graduate.
Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.
Prerequisites: jr st; Bio Sci 310(P) or equiv or cons instr.
Course Rules: Jointly offered with and counts as repeat of Bio Sci 451.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 461 The Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: junior standing; CES 210(P) or consent of instructor.
Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 461G The Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: junior standing; CES 210(P) or consent of instructor.
Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 471 Practicum in Natural Resources Management
4 cr. Undergraduate/Graduate.
Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr dis.
Prerequisites: sr st; Bio Sci 310(P); declared CES major; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CES 471G Practicum in Natural Resources Management
4 cr. Undergraduate/Graduate.
Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 310(P); declared CES major; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 489 Internship in Environmental Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Conservation & Environmental Sciences; 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 490 Senior Seminar: Conservation and Environmental Science
1 cr. Undergraduate.
Examination of conservation literature and preparation, presentation, and discussion of oral reports by individual students.
Prerequisites: sr st; Conservation & Environmental Sciences major or Bio Sci major.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2016, Fall 2015, Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 515 Environmental Law for Natural Resource Managers
3 cr. Undergraduate/Graduate.
Overview of United States environmental and natural resource law.
Prerequisites: jr st or cons instr.
Course Rules: Counts as repeat of CES 499 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 550 Introduction to Science Interpretation
3 cr. Undergraduate/Graduate.
Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.
Prerequisites: jr st; CES 210(P) or cons instr.
Last Taught: UWinterIM 2017, UWinterIM 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 550G Introduction to Science Interpretation
3 cr. Undergraduate/Graduate.
Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.
Prerequisites: jr st; CES 210(P) or cons instr.
Last Taught: UWinterIM 2017, UWinterIM 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 551 Application of Science Interpretation
3 cr. Undergraduate/Graduate.
Building upon CES 550, application of skills and knowledge to interdisciplinary environmental issues.
Prerequisites: jr st; CES 550(P).
Last Taught: Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 551G Application of Science Interpretation
3 cr. Undergraduate/Graduate.
Building upon CES 550, application of skills and knowledge to interdisciplinary environmental issues.
Prerequisites: jr st; CES 550(P).
Last Taught: Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 571 Practical Approaches to a Sustainable Future
3 cr. Undergraduate.
Natural ecological principles used to develop sustainable human-influenced environments. Emphasis on practical solutions to assess and develop alternative sustainable human agroecological models.
Prerequisites: jr st; grade C or better in CES 210(P).
Course Rules: Counts as a repeat of CES 499 w/similar topic.
Last Taught: Spring 2015, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CES 651 Principles of Stream Management and Restoration
3 cr. Undergraduate/Graduate.
Stream management and restoration, open-channel hydraulics, stream geomorphology, stable channel design, sediment transport, and in-stream aquatic ecology and riparian corridor habitats.
Prerequisites: jr st; Bio Sci 310(P) or equiv; Math 211(P) or equiv; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
Counseling (COUNS)

COUNS 297 Study Abroad:
1-12 cr. Undergraduate.
Design to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 403 Overview of Counseling Skills
3 cr. Undergraduate.
An applied course which introduces students to the basic interpersonal skills required in the counseling process. Designed for students interested in counseling and related fields.
Prerequisites: jr st
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 579 Current Topics in Counseling:
1-3 cr. Undergraduate/Graduate.
Specific topic and prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 579G Current Topics in Counseling:
1-3 cr. Undergraduate/Graduate.
Specific topic and prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 600 Introduction to Clinical Mental Health Counseling
3 cr. Undergraduate/Graduate.
Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling.
Prerequisites: jr st
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 600G Introduction to Clinical Mental Health Counseling
3 cr. Undergraduate/Graduate.
Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling.
Prerequisites: jr st
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 602 Introduction to School Counseling
3 cr. Undergraduate/Graduate.
Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools.
Prerequisites: jr st
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 602G Introduction to School Counseling
3 cr. Undergraduate/Graduate.
Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools.
Prerequisites: jr st
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 701 Psychosocial Aspects of Disability in Rehabilitation Counseling
3 cr. Graduate.
Psychological adjustment to disabling conditions by clients and families; case management practices with non-physical disabilities; substance abuse among persons with disabilities.
Prerequisites: grad st; Couns 601(C)
Current Offerings: https://catalog.uwm.edu/course-search/
COUNS 702 Neuroscience and Medical Aspects of Counseling
3 cr. Graduate.
Neuroscience and medical practices related to emotional and behavioral conditions with emphasis on appropriate intervention strategies.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 704 Multicultural Mental Health Guidelines and Ethics Overview
3 cr. Graduate.
Basic concepts in multicultural psychology and how they interact to shape the individual.
Prerequisites: grad st
Last Taught: Fall 2016, Fall 2015, Summer 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 705 Multicultural Practice: Awareness and Knowledge of Others
3 cr. Graduate.
Understanding and knowledge related to mental health practices of individuals from diverse cultural groups.
Prerequisites: grad st; Couns 704
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 710 Counseling: Theory and Issues
3 cr. Graduate.
Counseling theories and issues, associated research, and application of theory to counseling practice.
Prerequisites: grad st; course in learning, human development &/or personality theory.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 711 Foundations in Career Development
3 cr. Graduate.
Educational, psychological, and sociological bases for career development; evolution of career development research; consideration and application of educational-occupational-social information through individual and group counseling approaches.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 714 Essentials of Counseling Practice
3 cr. Graduate.
Experience and practice in basic counseling skills related to the helping process. Analysis of barriers and hazards in the counseling process.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 715 Multicultural Counseling
3 cr. Graduate.
Understanding the impact of culture on behavior and how to use that knowledge to increase effectiveness in counseling individuals from other cultures.
Prerequisites: grad st; Couns 714(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 740 Multicultural Mental Health Guidelines for Working with Latinos
3 cr. Graduate.
Information about the Hispanic/Latino population in the U.S. through concepts such as identity, acculturation, language, family values, religion, gender, and social class.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 741 Multicultural Mental Health Guidelines for Working with LGBT Individuals
3 cr. Graduate.
Essential multicultural mental health information as it pertains to the LGBT population in the U.S. Areas related to demographics, historical factors, sociopolitical issues and their influence on mental health.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 742 Multicultural Mental Health Guidelines for Working with Asian Americans
3 cr. Graduate.
Understanding and knowledge related to mental health practices of individuals of Asian descent living in the U.S.; demographic, historical, and sociopolitical factors influencing mental health.
Prerequisites: grad st; Couns 704 & 705 (P)
Last Taught: Fall 2015, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 743 Multicultural Mental Health Guidelines for Working with African Americans
3 cr. Graduate.
Multicultural mental health information as it pertains to African Americans in the U.S.; addresses demographics, historical factors, and sociopolitical issues and their impact on mental health.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 744 Multicultural Mental Health Guidelines, Working with First Nations Persons
3 cr. Graduate.
Pan-cultural information about the mental health issues facing the First Nations populations in North America.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 745 Multicultural Mental Health Guidelines for Working with Men
3 cr. Graduate.
Understanding how the traditionally socialized male gender role affects the lives of men and therapeutic techniques for working with men from a gender sensitive perspective.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: https://catalog.uwm.edu/course-search/
COUNS 751 Multicultural Considerations in Lifespan Psychopathology
3 cr. Graduate.
Etiology and pathogenesis of mental disorders as they occur throughout the lifespan, with special attention paid to the multicultural influences.
**Prerequisites:** grad st.
**Last Taught:** Fall 2019, Summer 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 755 Counseling Pre-Practicum
3 cr. Graduate.
Introductory experience for Master’s level counseling students, and is designed to meet the Wisconsin licensing requirement of 100 hours of supervised experience.
**Prerequisites:** grad st; Couns 710(P), Couns 714(P)
**Course Rules:** Counts as repeat of Couns 779 with same topic.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Summer 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 764 Supervised Practicum 1 in School Counseling
3 cr. Graduate.
Practical, intensive and continuous experience in school settings that utilize counseling personnel.
**Prerequisites:** grad st; field placement; Couns 710(P) & 714(P); cons instr; competency requirement.
**Course Rules:** Retakable to 9 cr max. Sat/Unsat grade only.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 765 Supervised Practicum 1 in Clinical Mental Health Counseling
3 cr. Graduate.
Practical, intensive, and continuous experience in community settings working with professional counseling personnel.
**Prerequisites:** grad st; field placement; Couns 710(P) & 714(P); cons instr; competency requirement.
**Course Rules:** Retakable to 9 cr max.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
**Prerequisites:** grad st.
**Course Rules:** Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
**Prerequisites:** grad st; Couns 774, Nurs 774, OccThpy 774 or Soc Wrk 774(P), or cons instr.
**Course Rules:** Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 776 Supervised Practicum 1 in Rehabilitation Counseling
3 cr. Graduate.
Practical, intensive, and continuous experience in settings that utilize rehabilitation counseling personnel.
**Prerequisites:** grad st; field placement; Couns 710(P) & 714(P); cons instr; competency requirement.
**Course Rules:** Retakable to 9 cr max. Sat/Unsat grade only.
**Last Taught:** Summer 2007, Spring 2007, Spring 2006.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 779 Current Topics in Counseling:
1-3 cr. Graduate.
Specific topic and prerequisites announced in schedule of classes each time course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakable with change in topic to max of 9 cr.
**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Spring 2007.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 790 Research or Thesis
1-3 cr. Graduate.
For graduate students needing to complete master’s paper.
**Prerequisites:** grad st (master’s level in Couns/Rehab Couns); cons instr.
**Last Taught:** Spring 2018, Fall 2017, Spring 2015, Fall 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 799 Independent Reading
1-3 cr. Graduate.
For the benefit of graduate students unable to secure needed content in regular courses.
**Prerequisites:** grad st; cons instr.
**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Spring 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 800 Group Counseling Theory
3 cr. Graduate.
Theories of groups, group counseling strategies, group structure, latent structural analysis, and educational methodologies.
**Prerequisites:** grad st; Couns 710 & 714.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 803 Vocational Psychology
3 cr. Graduate.
Vocational theories and research; understanding of individual in relation to world of work; understanding of role of assessment in vocational counseling; multicultural vocational research and counseling.
**Prerequisites:** grad st; Ed Psy 720; Couns 711 or equiv; Couns 714
**Last Taught:** Spring 2020, Spring 2018, Spring 2016, Spring 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

COUNS 805 Consultation Strategies for Counselors and School Psychologists
3 cr. Graduate.
Analysis of consultation models; investigation of intervention strategies; and evaluation of the consultation process.
**Prerequisites:** 21 grad crs in Ed Psy &/or Couns.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/
COUNS 807 Advanced Counseling Strategies: 1-3 cr. Graduate.
Variable content lecture-laboratory class. This course provides an in-depth view of counseling strategies based on the precepts of a particular theoretical model. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered. 
Prerequisites: grad st; Couns 714
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 810 Counseling in the Schools 3 cr. Graduate.
Exploration of counseling functions in schools. The rationale, scope and nature of school counseling. Theories, techniques and principles of counseling process are emphasized. 
Prerequisites: grad st; Couns 710 & 714.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 812 Clinical Studies in Counseling 3 cr. Graduate.
Problem behaviors that clients bring to the counseling situation; stypical behaviors; techniques by which counselors deal with those behaviors. Emphasis on case material. 
Prerequisites: grad st; Couns 710 & 714.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 814 Professional, Ethical and Legal Issues in Counseling Psychology 3 cr. Graduate.
Examination of professional, legal and ethical issues affecting the practice of counseling psychology. Introduction to the scientist-practitioner model and the profession of counseling psychology. 
Prerequisites: grad st; 21 crs in Couns or equiv.
Last Taught: Fall 2018, Fall 2016, Fall 2015, Fall 2012. 
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 815 Advanced Multicultural Counseling 3 cr. Graduate.
Multicultural counseling models and related strategies for professionals working in multicultural educational and community settings. 
Prerequisites: grad st; Couns 714; Couns 715; Couns 774
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 816 Counseling Children and Adolescents 3 cr. Graduate.
This course will describe various counseling issues and strategies applicable to working with children and adolescents in both school and community settings. 
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 819 Group Assessment for Adults 3 cr. Graduate.
This course is designed to prepare students in adult group assessment. Students will become familiar with instruments used in personality, vocational, and interest assessment. 
Prerequisites: grad st; Ed Psy 624; Ed Psy 720
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 820 Counseling Appraisal and Clinical Decision-Making 3 cr. Graduate.
Course will integrate science of psychology with counseling practice in order to promote development of advanced interviewing skills and intake reporting. 
Prerequisites: grad st; Couns 710(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 830 Proseminar 1: Introduction to Counseling Psychology; Multiculturalism 3 cr. Graduate.
Introduction to the profession; multicultural counseling and APA's code of ethics covered in depth. 
Prerequisites: grad st, cons instr
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2008. 
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 831 Proseminar 2: Psychotherapy Interventions 3 cr. Graduate.
Psychotherapy models and associated techniques. 
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 840 Psychological Assessment 3 cr. Graduate.
Use of psychological assessment in counseling psychology practice.
Prerequisites: grad st; cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 841 Proseminar 4: Vocational Psychology; Social Justice 3 cr. Graduate.
Advanced vocational psychology including career theory, career counseling, and social justice. 
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 850 Proseminar 5: Supervision and Consultation 3 cr. Graduate.
Provides an introduction to and practice in supervision in counseling psychology. 
Prerequisites: grad st; cons instr
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009. 
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 860 Capstone-Research in Counseling Psychology 3 cr. Graduate.
Analysis of research trends; examination of critical issues; reports of student research projects. 
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 873 Fieldwork in Student Personnel Services 3-6 cr. Graduate. 
Prerequisites: grad st; major in area & cons instr
Current Offerings: https://catalog.uwm.edu/course-search/
COUNS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 904 Family Systems Theory, Research, and Practice
3 cr. Graduate.
Introduction to systems theory, major approaches to family therapy, and the research on family systems concepts, in-session processes, and therapy outcomes.
Prerequisites: grad st; Couns 710(P).
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 917 Supervision of Counseling
3 cr. Graduate.
An examination of research and strategies for the supervision of counseling; experience in the actual process of supervision.
Prerequisites: grad st; Couns 770
Last Taught: Fall 2019, Fall 2017, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 968 Supervised Practicum 2 in School Counseling
3 cr. Graduate.
Supervised practice in cooperating K-12 school settings.
Prerequisites: grad st; field placement; Couns 774(P); cons instr; Sat/Unsat grade only.
Course Rules: Retakable to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 970 Supervised Practicum 2 in Clinical Mental Health Counseling
3 cr. Graduate.
Practice in cooperating colleges, agencies, and other community settings.
Prerequisites: grad st; field placement; Couns 775(P); cons instr; competency req.
Course Rules: Retakable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 971 Supervised Practicum in Group Counseling
3-9 cr. Graduate.
Controlled practicum in group counseling with cooperating schools, colleges and agencies.
Prerequisites: master's degree in Ed Psy; acceptance by Couns area; letter of recomm from agency or school
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 972 Internship in Counseling I
6 cr. Graduate.
Practical experience in a cooperating school involving counseling procedures. Supervised by qualified staff at the employing unit and by counselor education faculty. Seminar participation required.
Prerequisites: master's degree in Ed Psy with specialization in Couns & writ cons instr.
Last Taught: Fall 2003, Fall 2002, Fall 2001, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 974 Internship in Rehabilitation Counseling
3-6 cr. Graduate.
Supervised experience in a public or private rehabilitation agency. Stress on case management and counseling procedures with a variety of clients.
Prerequisites: admis to rehab couns concentration; writ cons instr & agency.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 975 Doctoral Practicum in Counseling 3
3 cr. Graduate.
A supervised counseling experience with emphasis on the process and techniques of assessment, individual, and group counseling. Opportunity for consultation and feedback on counseling issues.
Prerequisites: grad st; field placement; admis to PhD prog in Urban Educ, cons instr.
Course Rules: Sat/Unsat grade only. Retakable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 976 Doctoral Practicum in Counseling 4
3 cr. Graduate.
A supervised counseling experience with a broad range of clients within a clinical setting. Opportunity for consultation and feedback on counseling issues, and experience at providing supervision of masters’ level students.
Prerequisites: grad st; field placement; admis to PhD prog in Urban Educ; Couns 975(P); cons instr.
Course Rules: Retakable to 9 cr max. Sat/Unsat grade only.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 977 Advanced Doctoral Practicum in Counseling-5
3 cr. Graduate.
Advanced supervised training in specialized areas of counseling psychology: psychological assessment, individual, family, or group therapy; and consultation in outpatient, inpatient, or community mental health settings.
Prerequisites: grad st; field placement; admis to PhD program in Urban Ed; Couns 976(P); cons instr.
Course Rules: Retakable to 9 cr max. Sat/Unsat grade only.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 990 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons major professor.
Course Rules: Considered full time for FA purposes.
Current Offerings: https://catalog.uwm.edu/course-search/

COUNS 999 Independent Reading
1-3 cr. Graduate.
For benefit of doctoral students unable to secure needed content in regular courses.
Prerequisites: doctoral st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
Criminal Justice & Criminology (CRM JST)

CRM JST 105 Orientation for Social Welfare Students
1 cr. Undergraduate.
Prepares students to participate in UWM's educational process and to explore career choices in social welfare.
Prerequisites: Fr st only.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 110 Introduction to Criminal Justice
3 cr. Undergraduate.
Survey of the present structure, philosophy, procedures, future prospects of police, courts, corrections, and of the penal system in American society.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 271 Introduction to Policing
3 cr. Undergraduate.
An interdisciplinary analysis of the role of police in a democratic society; emphasis on historical development of police institution, cultural attributes, accountability, occupational socialization, police-behavior, and selected current issues.
Prerequisites: CRM JST 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 273 Introduction to Corrections
3 cr. Undergraduate.
Analysis of role of corrections in American criminal justice. Emphasis on describing and assessing the effectiveness of correctional models in prisons, jails, probation, and parole.
Prerequisites: CRM JST 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 275 Introduction to Criminal Courts
3 cr. Undergraduate.
Examination of criminal judicial process from setting bail through sentencing, role of courts within criminal justice. Analysis of structure, professional roles, and procedural law governing processing.
Prerequisites: CRM JST 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly offered with & counts as repeat of ANTHRO/Chem/BMS 281.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 291 Current Issues in Criminal Justice
1-3 cr. Undergraduate.
Selected current issues in criminal justice.
Prerequisites: none.
Course Rules: May be retaken with change in topic to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 300 Criminal Process
3 cr. Undergraduate.
Analysis of the problems of the criminal justice system in separating the guilty and the innocent. Discussion of constitutional issues and technical procedural problems involved.
Prerequisites: jr st; Crm Jst 110(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 301 Criminal Law
3 cr. Undergraduate.
Principles, theories and doctrines of the law of crimes with a unified study of legal defense.
Prerequisites: jr st; Crm Jst 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 304 Gangs and Organized Crime
3 cr. Undergraduate.
Provides an overview of domestic and international gangs and organized crime networks. The challenges these organizations bring to the criminal justice system are also discussed.
Prerequisites: none.
Course Rules: Counts as repeat of Crm Jst 291 with same topic.
Last Taught: Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 305 Criminological Theory and Policy
3 cr. Undergraduate.
Examination of criminal justice policy through analysis of relevant theory, research findings, and implications.
Prerequisites: CRM JST 110(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CRM JST 310 Race, Ethnicity, and Justice
3 cr. Undergraduate.
Issues of race and ethnicity in the criminal justice system. Emphasis on research examining social construction of race and ethnicity.
Prerequisites: none.
Course Rules: Counts as repeat of Crm Jst 291 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 311 Field Experience Practicum
3-6 cr. Undergraduate.
Placement in a faculty unit or project in a criminal justice setting, either public or private. Minimum 120 hours per semester under supervision.
Prerequisites: jr st; Crm Jst 110(P); writ cons instr. Regis priority for students admitted to Crm Jst major.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 340 Policing the Streets
3 cr. Undergraduate.
Analysis of policing from the perspective of the front line police officer, including societal expectations, legality, use of force, discretion, and psychological aspects.
Prerequisites: none.
Course Rules: Counts as repeat of Crm Jst 291 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 350 White Collar Crime
3 cr. Undergraduate.
The nature and extent of white collar crime in the United States, especially the harmful and criminal acts of the rich and powerful.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 370 Criminal Justice Administration
3 cr. Undergraduate.
Analysis of operational and administrative issues in criminal justice drawn from organizational theory, management theory; discussion of organizational technology, structure, environment; and organizational assessment.
Prerequisites: jr st; Crm Jst 110(P).
Last Taught: Fall 2014, Fall 2013, Spring 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 380 Victimization
3 cr. Undergraduate.
An overview of conceptual and substantive issues in victim centered theory and research, including past, present and future models of victim participation in criminal justice.
Prerequisites: jr st; Crm Jst 110(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 385 Women and Criminal Justice
3 cr. Undergraduate.
A study of female crime and delinquency, and how the criminal justice system responds to female crime.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 386 Criminal Intelligence
3 cr. Undergraduate.
Contemporary responses to police problems, the tenets of various police styles and tactical crime analysis.
Prerequisites: Crm Jst 110(P).
Course Rules: Counts as repeat of Crm Jst 592 with same subtitle.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 410 Comparative Criminal Justice
3 cr. Undergraduate.
Comparative study of criminal justice components of selected countries. Emphasis will be on cultural influences on the principles and operation of criminal justice systems.
Prerequisites: jr st or cons instr.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 416 Domestic Violence Research
3 cr. Undergraduate.
An examination of the criminal justice response to domestic violence related incidents. Theoretical and practical issues are explored in the context of physical child abuse, spousal battering, and elder abuse.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 420 Violence and the Criminal Justice System
3 cr. Undergraduate.
Historical and contemporary study of violent crime and its relationship to the criminal justice system.
Prerequisites: jr st; Crm Jst 110(P) & 150(P).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 421 Cybercrime
3 cr. Undergraduate/Graduate.
Legal issues associated with cybercrimes, including response, investigation and prosecution.
Prerequisites: jr st.
Course Rules: Counts as repeat of Crm Jst 592/970 with same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 421G Cybercrime
3 cr. Undergraduate/Graduate.
Legal issues associated with cybercrimes, including response, investigation and prosecution.
Prerequisites: jr st.
Course Rules: Counts as repeat of Crm Jst 592/970 with same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CRM JST 430 Punishment
3 cr. Undergraduate.
Critical examination of theoretical justifications of punishment, corresponding sentencing structures, and recent empirical evidence addressing the utilitarian aims of punishment. Seminar.
Prerequisites: jr st or cons instr.
General Education Requirements: SS
Last Taught: Fall 2016, Spring 2014, Fall 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 460 The Federal System: The FBI, Courts and Corrections
3 cr. Undergraduate.
Aspects of the federal criminal justice system; how law enforcement, courts, and corrections at the federal level are organized as well as special topics within these areas.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 480 Criminal Evidence and Investigation
3 cr. Undergraduate.
Examination of the criminal investigation process with emphasis on theory of investigation, role of criminal evidence, and effectiveness of the process.
Prerequisites: Crm Jst 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 481 Criminalistics
3 cr. Undergraduate.
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.
Prerequisites: jr st; admis to Forensic Sci cert program; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P).
Course Rules: Anthro 481, Chem 481, BMS(C L Sci) 481, and Crm Jst 481 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 490 Drugs, Crime and Criminal Justice
3 cr. Undergraduate/Graduate.
Overviews illicit drug use, the relationship between drugs and crime, and responses of criminal justice agencies to illegal drug use.
Prerequisites: jr st.
Course Rules: Counts as repeat of Crm Jst 592/970 w/same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 497G Study Abroad:
1-6 cr. Undergraduate/Graduate.
Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be repeated w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 497G Study Abroad:
1-6 cr. Undergraduate/Graduate.
Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be repeated w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 510 Introduction to Crime Analysis
3 cr. Undergraduate.
Introduction to crime analysis and crime mapping. Examines techniques, theory, data collection methods, statistics used, history of and career opportunities in crime analysis.
Prerequisites: Crm Jst 110(P).
Course Rules: Counts as repeat of Crm Jst 592 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 520 Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
3 cr. Undergraduate/Graduate.
Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered.
Prerequisites: jr st; Crm Jst 110(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 520G Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
3 cr. Undergraduate/Graduate.
Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered.
Prerequisites: jr st; Crm Jst 110(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 530 Data Driven Policing Strategies and Police Intelligence
3 cr. Undergraduate.
Examines data driven policing strategies and police intelligence. Approaches covered include: Problem-oriented Policing (POP), Smart Policing, Intelligence-led Policing, and Place-based Policing.
Prerequisites: Crm Jst 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/
**CRM JST 585 Internship in Forensic Toxicology**

1-3 cr. Undergraduate.

Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sc)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

Course Rules: Anthro 585, Chem 585, BMS(C L Sc) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.

Last Taught: Spring 2002.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 594 Internship in Forensic Science**

1-3 cr. Undergraduate.

On-site shadowing of evidence analyst at State Crime Laboratory.

Prerequisites: jr st; admis to Forensic Sci cert prog; Crm Jst/Anthro/Chem/BMS(C L Sc) 281(P); Crm Jst 480(P); BMS(C L Sc) 620(R); Hepatitis B vaccine series or waiver.

Course Rules: Anthro 589, Chem 589, BMS(C L Sc) 589 & Crm Jst 589 are jointly offered; they count as repeats of one another.

Last Taught: Fall 2019, Fall 2017, Spring 2016, Spring 2012.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 599 Independent Reading**

1-3 cr. Undergraduate.

Reading may be in any field for which the student has an adequate background.

Prerequisites: sr st; writ cons instr & grad st; writ cons instr & coord; gpa 2.5 or above.

Course Rules: May be retaken to max of 6 cr.

Last Taught: Summer 2018, Summer 2016, Fall 2015, Spring 2015.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 662 Methods of Social Welfare Research**

3 cr. Undergraduate.

Analysis of methods used in social welfare research and problems in project design and programming. Distinctive characteristics of investigations directed to planning, administrative, and scientific objectives.

Prerequisites: jr st.

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 663 Criminal Justice Capstone Seminar**

3 cr. Undergraduate.

Synthesis of criminal justice theories, empirical research and program creation and implementation.

Prerequisites: jr st.; completion of OWC-A GER.

General Education Requirements: OWCB

Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 671 Juvenile Justice**

3 cr. Undergraduate/Graduate.

Structure of juvenile justice system – police, courts, and corrections; analysis of structure of subsystems of the juvenile justice process; introduction to literature and research.

Prerequisites: jr st or cons instr.

Last Taught: UWinteriM 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 671G Juvenile Justice**

3 cr. Undergraduate/Graduate.

Structure of juvenile justice system – police, courts, and corrections; analysis of structure of subsystems of the juvenile justice process; introduction to literature and research.

Prerequisites: jr st or cons instr.

Last Taught: UWinteriM 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 680 Jails**

3 cr. Undergraduate/Graduate.

The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society.

Prerequisites: jr st; Crm Jst 110 (P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 680G Jails**

3 cr. Undergraduate/Graduate.

The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society.

Prerequisites: jr st; Crm Jst 110 (P).

Last Taught: Spring 2020.

Current Offerings: https://catalog.uwm.edu/course-search/

**CRM JST 713 Measuring Crime & Analyzing Crime Data**

3 cr. Graduate.

This course discusses various measures of crime, how different measures affect outcomes, and strategies to analyze and visualize crime data.

Prerequisites: grad st.

Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.

Current Offerings: https://catalog.uwm.edu/course-search/
CRM JST 716 Advanced Analytic Techniques for Crime Analysts
3 cr. Graduate.
Current methods and analyses commonly used by crime analysts, including the identification of crime patterns, risk factors, and intelligence gathering strategies.
Prerequisites: Grad st; Crm Jst 520(P), Crm Jst 713(P), Crm Jst 716(P)
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 743 Proseminar: Administration of Criminal Justice Systems
3 cr. Graduate.
An examination of criminal justice organizations from a public administration focus, integrating organizational theory and political theory for the analysis of criminal justice administration.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 756 Proseminar: Analysis of Criminal Justice Research
3 cr. Graduate.
A study of the application of social science research methods to criminal justice issues.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 773 Criminological Perspectives
3 cr. Graduate.
An in-depth analysis of the etiology of criminal behavior; processes of becoming a criminal; patterns of criminal behavior; and policy and individual consequences of decriminalization.
Prerequisites: grad st.
Course Rules: Jointly offered; CRM JST 773 and SOC WRK 773 count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 775 Race, Crime and Criminal Justice
3 cr. Graduate.
A study of crime and criminal justice issues as they impact major racial groups such as Blacks, American Indians, and Hispanics
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 783 Data Mining and Predictive Modeling for Crime Analytics
3 cr. Graduate.
Explores data mining and predictive analytics for crime analysts. Theoretical and practical applications of these techniques are explained.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 795 Issues in Law Enforcement Practice and Policy
3 cr. Graduate.
An examination of police practice in a democratic society from an operational, legal, and sociological perspective
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 810 Police Administration
3 cr. Graduate.
An application of management principles to the police organization.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 820 Police and the Multicultural Community
3 cr. Graduate.
A study of the critical issues facing police officers and administrators in relation to policing a diverse society, with particular emphasis on training leadership, minorities and women police officers, and police - community relations.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2016, Spring 2012, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 830 Intervention Strategies for Correctional Clients
3 cr. Graduate.
A review and analysis of intervention approaches and programs used with correctional clients, both juvenile and adult, with emphasis on diversion, prevention, and rehabilitation strategies.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2017, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 840 Philosophical Foundations of Policing
3 cr. Graduate.
An in-depth analysis of the social theory of policing. The most significant theoretical and empirical works on policing are examined.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 850 Issues in Correctional Practice and Policy
3 cr. Graduate.
Overview of significant issues facing corrections, including sentencing, life imprisonment, violence and victimization in prison, supermax, evidence-based practices, and parole revocation.
Prerequisites: grad st
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 910 Methods and Practice Capstone for Crime Analysts
3 cr. Graduate.
Seminar in use of crime analysis techniques and synthesis of prior empirical research using crime analysis techniques.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

CRM JST 920 Criminal Justice Masters Capstone Seminar
3 cr. Graduate.
Seminar involving synthesis and integration of degree coursework on criminal justice theories, empirical research and program creation and implementation.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 110 Reading Proficiency for College Students I
1 cr. Undergraduate.
Presentation of techniques for the acquisition of basic reading skills. Emphasis on vocabulary building, text organizational structures, and comprehension.
Prerequisites: completion of Nelson-Denny reading test.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 111 Introduction to College Reading
2 cr. Undergraduate.
Understanding and application of college level reading skills.
Prerequisites: none.
Course Rules: Counts as repeat of CURRINS 279 with same topic.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 112 College Reading
1 cr. Undergraduate.
Read and respond to text and essays by summarizing information, examining perspective, comparing and contrasting ideas and evaluating arguments.
Prerequisites: none.
Course Rules: May be retaken to max of 3 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 127 Current Topics in Curriculum and Instruction: General Education Requirements: HU
1-3 cr. Undergraduate.
Special topics for undergraduates will be offered from time to time. See Schedule of Classes.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 140 Field Experience with Families & Communities
1 cr. Undergraduate.
Field experience in local agencies providing services to families.
Prerequisites: CURRINS 312(C) or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 233 Introduction to Children's and Young Adult Literature
3 cr. Undergraduate.
Introductory survey will focus on the literary merit and cultural contexts of works written for children and young adults.
Prerequisites: none.

CURRINS 234 Teachers as Writers
3 cr. Undergraduate.
Focus on various rhetorical modes of writing, stylistic strategies, and grammatical constructions from a teaching perspective.
Prerequisites: OWC Part A.

CURRINS 240 Field Experience with Dual Language Learners
2 cr. Undergraduate.
Field experience with dual language learners in various settings.
Prerequisites: CURRINS 140(P) and CURRINS 501(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 250 1st-Year Student Seminar: Early Childhood Education
1 cr. Undergraduate.
Introductory seminar for first-year and transfer Early Childhood Education intended students.
Prerequisites: none.
Course Rules: Counts as repeat of CURRINS 279 with same topic.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 279 Current Topics in Curriculum and Instruction: General Education Requirements: HU
1-3 cr. Undergraduate.
Special topics for undergraduates will be offered from time to time. See Schedule of Classes.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 300 Introduction to Teaching: Colloquium and Fieldwork
3 cr. Undergraduate.
Introduction to the teaching profession and teaching in urban schools. Provides an overview of educational, multicultural, social, economic, and political issues that influence urban schools.
Prerequisites: soph st.
Course Rules: Counts as repeat of CURRINS 100.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 301 Infants and Toddlers: Curriculum and Teaching
3 cr. Undergraduate.
Approaches to infant/toddler care and education; instructional material and techniques to foster infant/toddler development; strategies for administering and managing learning environments.
Prerequisites: soph st & admis to School of Educ; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 302 Curriculum Design in Early Childhood
3 cr. Undergraduate.
Curriculum design and unit development in pre-primary and early primary classrooms.
Prerequisites: jr st & admis to School of Educ; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 306 MCEA Clinical Experience, Grades 1-3
1 cr. Undergraduate.
Clinical experience with children in grades 1-3. Focus on literacy tutoring with individual students and in small groups.
Prerequisites: jr st, admis to SOE, CURRINS 536(C) and CURRINS 556(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 307 MCEA Clinical Experience, Grades 4-8
2 cr. Undergraduate.
Clinical experience focusing on instructional practices in grades 4-8.
Prerequisites: jr st, admis to SOE, CURRINS 306(P) and CURRINS 557(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 310 Curriculum for the Pre and Early Adolescent
1-4 cr. Undergraduate.
The determination of curriculum and instructional approaches appropriate for the pre and early adolescent age group.
Prerequisites: admis to School of Educ.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 312 Models and Issues for Early Childhood Education
3 cr. Undergraduate.
Overview of content, methods, and issues pertaining to the organization of early childhood programs for developmentally-diverse, monolingual and bilingual learners.
Prerequisites: CURRINS 140(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 313 Teaching Economics in the Social Studies Curriculum
2 cr. Undergraduate.
Approaches to teaching economics in the social studies curriculum. Latest research and teaching practices. A study of cooperative enterprises to meet Wisconsin’s statutory requirement.
Prerequisites: ECON 103(P) or ECON 104(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 314 Field Work I in Early Childhood Education - PreK/K
1 cr. Undergraduate.
Field experience with children in prekindergarten or kindergarten. Planning and implementation of learning opportunities in the classroom.
Prerequisites: jr st, CURRINS 302(C)
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 316 Field Work in Secondary Reading in Content Areas, Grade 6-12:
3 cr. Undergraduate.
Field-based application of subject matter methods and instructional strategies in vocabulary development and comprehension, and assessment of student understanding of subject matter texts.
Prerequisites: jr st; admis to School of Educ; CURRINS 545 or equiv; & conc reg in subject matter methods course.
Course Rules: Cr/no cr only.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 320 Introduction to Critical Media Literacy
1 cr. Undergraduate.
Introduction to media literacy and applications of instructional technology to support student learning.
Prerequisites: admis to SOE or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 321 Introduction to the Teaching of Social Studies
1 cr. Undergraduate.
Methods and content introducing the teaching of social studies in secondary schools.
Prerequisites: jr st; admis to School of Educ.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 323 Teaching of Social Studies:
1-4 cr. Undergraduate.
An examination of the purposes of social studies education in the schools with work in content selection, educational process and the nature of inquiry.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 325 Instructional Strategies for Using the Computer
1 cr. Undergraduate.
An examination of the instructional uses of computers. Focus on instructional strategies, software evaluation, and management of student learning.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 326 Environmental Education for Teachers
1 cr. Undergraduate.
Study of environmental issues and problems affecting local, state, and national resources. Fulfills WI DPI certification required for teachers.
Prerequisites: jr st, admis to School of Educ.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRENS 327 Teaching of Science in the Elementary School
1-4 cr. Undergraduate.
The objectives, materials, and techniques of teaching elementary science.
Prerequisites: jr st; admis to School of Educ; CURRENS 306(P).
Course Rules: May not be retaken for degree cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 328 Introduction to Teaching Science in Middle and High School
3 cr. Undergraduate.
Exploration of science teaching through developing some foundational teaching strategies and working with students in middle and high schools.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 330 Teaching of Mathematics: Early Childhood
3 cr. Undergraduate.
Methods and curriculum for facilitating the learning of mathematics with children ages 3-8. Emphasis on number concepts, problem solving, and intuitive geometry.
Prerequisites: jr st, admis to School of Educ, MATH 176(P) with grade of C or better and CURRENS 302(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 331 Teaching of Mathematics, Elementary School
3 cr. Undergraduate.
Methods and curriculum for teaching mathematics in grades 1-6. Emphasis on whole numbers, computing devices, fractions/decimals, geometry, measurement, statistics, and problem-solving.
Prerequisites: jr st, admis to SOE, CURRENS 306(C) & MATH 176(P) with grade of C or better, or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 332 Teaching of Mathematics: Middle School
2-3 cr. Undergraduate.
Methods and curriculum for the teaching of mathematics in the middle school. Emphasis on advanced arithmetic topics, number theory, probability and statistics, geometry, measurement, and applications.
Prerequisites: jr st; admis to School of Educ; CURRENS 331(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 333 Introduction to Teaching, Grades 1-8
3 cr. Undergraduate.
Introduction to the teaching profession in grades 1-8 in urban setting. Overview of educational, multicultural, social and economic, and political issues that influence urban schools.
Prerequisites: ED PSY 330(C) or cons instr.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 334 Teaching of Modern Foreign Languages
1-4 cr. Undergraduate.
The study of modern foreign language; application of teaching methods to the teaching of modern foreign languages.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Fall 2006, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 335 Instructional Computing I for Teachers
1 cr. Undergraduate.
Introduction to instructional computing for teachers with emphasis on primary grades.
Prerequisites: admis to Collaborative Teacher Ed Prog for Urban Communities.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 336 Instructional Computing II for Teachers
1 cr. Undergraduate.
Instructional computing for teachers with emphasis on intermediate grades.
Prerequisites: admis to MCEA prog.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 337 Instructional Computing III for Teachers
1 cr. Undergraduate.
Instructional computing with emphasis on electronic portfolio development.
Prerequisites: admis to MCEA (Middle Childhood through Early Adolescence) program and CURRENS 336(P).
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 338 Teaching of Science in Early Childhood
3 cr. Undergraduate.
Objectives, materials, and teaching methods for science in Early Childhood.
Prerequisites: jr st, admis to School of Educ, CURRENS 540(C), and CURRINS 302(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 340 Field Experience in Preschool and Kindergarten Classrooms
2 cr. Undergraduate.
Field experience with children in prekindergarten/kindergarten. Focus on early literacy lesson planning.
Prerequisites: CURRENS 240(P), CURRENS 502(C) & admis to School of Educ; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRENS 343 Teaching of Reading
1-4 cr. Undergraduate.
An introductory course in the teaching of reading. Involves fieldwork. Designed for students without teaching experience.
Prerequisites: admis to School of Educ or cons instr.
Last Taught: Fall 2012, Spring 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 375 Using Technology for Teaching and Learning 1 cr. Undergraduate.
Introduce students to various forms of technology used in the PK-12 classrooms.
Prerequisites: none.
Course Rules: None.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 376 Understanding and Developing the edTPA 1 cr. Undergraduate.
In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries.
Prerequisites: None.
Course Rules: Jointly offered with and counts as repeat of EXCEDUC 376.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 377 Wisconsin Foundations of Reading 1 cr. Undergraduate.
Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development in grades PreK-8.
Prerequisites: None.
Course Rules: Jointly offered with and counts as repeat of EXCEDUC 377.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 378 Implementing the edTPA in a Clinical Setting 1-4 cr. Undergraduate.
In-depth overview of all components of the edTPA. Opportunities to engage in learning activities and assignments that will increase understandings of the edTPA requirements.
Prerequisites: None.
Course Rules: May be taken for credit. Credit/no credit only.
Last Taught: Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 380 Teaching Music in Elementary Schools I, II 2 cr. Undergraduate.
Methods, materials and observation of teaching vocal music in grades K-6. Includes junior participating experience.
Prerequisites: Jr st & admis to School of Educ.
Course Rules: This course may be repeated for credit.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 401 Seminar for Student Teaching 1 cr. Undergraduate.
Collaboration around solving problems encountered in urban teaching through a structured inquiry format with others involved in the student teaching experience.
Prerequisites: Jr st; admis to School of Educ.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 402 Student Teaching in Nursery and Kindergarten 6 cr. Undergraduate.
Prerequisites: Jr st; admis to School of Educ.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 404 Student Teaching in Primary Grades 6 cr. Undergraduate.
Prerequisites: Jr st & admis to student teaching.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 406 Advanced MCEA Clinical Experience 4 cr. Undergraduate.
Advanced clinical experience focusing on instructional practices in grades 1-8.
Prerequisites: Jr st, admis to SOE and CURRINS 558(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 407 Student Teaching in Middle Childhood-Early Adolescence 5-9 cr. Undergraduate.
Full-time student teaching in grades 1-8.
Prerequisites: Jr st, admis to student teaching, CURRINS 471(C) and CURRINS 406(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 415 Preliminary Student Teaching: 1-6 cr. Undergraduate/Graduate.
Initial Student Teaching Experience for EAA Licensure Candidates.
Prerequisites: Jr st; eligibility for student teaching & dept req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 415G Preliminary Student Teaching: 1-6 cr. Undergraduate/Graduate.
Initial Student Teaching Experience for EAA Licensure Candidates.
Prerequisites: Jr st; eligibility for student teaching & dept req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 423 Student Teaching in Social Studies 10-12 cr. Undergraduate/Graduate.
Final Student Teaching Semester for EAA Social Studies Licensure Candidates.
Prerequisites: Jr st; eligibility for student teaching & dept req.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 423G Student Teaching in Social Studies
10-12 cr. Undergraduate/Graduate.
Final Student Teaching Semester for EAA Social Studies Licensure Candidates.
Prerequisites: jr st; eligibility for student teaching & dept req.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 427 Student Teaching in Science
2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 428 Student Teaching Science Seminar
3 cr. Undergraduate/Graduate.
Seminar to support secondary science student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.
Prerequisites: jr st; eligibility for student teaching.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 428G Student Teaching Science Seminar
3 cr. Undergraduate/Graduate.
Seminar to support secondary science student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.
Prerequisites: jr st; eligibility for student teaching.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 430 Student Teaching in Computer Science
2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 431 Student Teaching in Mathematics
2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 432 Student Teaching Mathematics Seminar
3 cr. Undergraduate/Graduate.
Seminar to support secondary mathematics student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.
Prerequisites: jr st or grad st; eligibility for student teaching.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 432G Student Teaching Mathematics Seminar
3 cr. Undergraduate/Graduate.
Seminar to support secondary mathematics student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.
Prerequisites: jr st or grad st; eligibility for student teaching.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 437 Student Teaching in World Language- Minor:
2-12 cr. Undergraduate.
Students pursuing a minor in a World Language: EC, MC-EA, EA-A, or EC-A.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 438 Student Teaching in World Language: Early Childhood-Adolescence
2-12 cr. Undergraduate.
Students pursuing an EC-A major in a World Language.
Prerequisites: jr st; eligibility for student teaching & dept req.
Course Rules: May be retaken to max of 12 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 440 Field Experience in the Primary Grades
2 cr. Undergraduate.
Field experience with children in primary grades. Focus on literacy lesson planning.
Prerequisites: jr st, admis to School of Educ, CURRINS 340(P) and CURRINS 504(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 442 Student Teaching in Bilingual Education
2-12 cr. Undergraduate.
Students pursuing a supplemental certification in bilingual: EC, MC-EA, EA-A, or EC-A.
Prerequisites: jr st & admis to student teaching.
Course Rules: May be retaken to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 443 Student Teaching in English as a Second Language: Minor
2-12 cr. Undergraduate.
Students pursuing a minor in ESL EC, MCEA, EAA, or ECA.
Prerequisites: jr st, eligibility for student teaching & dept req.
Course Rules: May be retaken to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 444 Student Teaching in ESL- Early Childhood-Adolescence
2-12 cr. Undergraduate.
Students pursuing an EC-A ESL major.
Prerequisites: jr st; eligibility for student teaching & dept req.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 445 Seminar in Language Education
3 cr. Undergraduate.
Provides student teachers in the Language Education program support to reflect on their student teaching experience and successfully complete the program portfolio.
Prerequisites: Admis to School of Educ; CURRINS 437(C), CURRINS 438(C), CURRINS 442(C), CURRINS 443(C), or CURRINS 444(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 452 Student Teaching in English
2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 470 Professional Urban Teaching Linking Seminar
2 cr. Undergraduate.
Facilitates professional growth and development of teachers through structured inquiry, professional collaboration to solve problems in urban teaching, and personal assessment of progress using portfolios.
Prerequisites: jr st, admis to School of Educ.
Course Rules: May be retaken/chg in topic to max of 8 cr.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 471 Professional Seminar 4: The Effective Urban Educator
2 cr. Undergraduate.
Integrated study of curriculum and classroom management to maximize children's learning in grades 1-8.
Prerequisites: jr st, admis to SOE and CURRINS 407(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 497 Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 497G Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 499 Independent Reading:
1-4 cr. Undergraduate.
Prerequisites: jr st.
Course Rules: May be retaken.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 500 Workshop in Curriculum and Instruction:
1-6 cr. Undergraduate/Graduate.
Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 500G Workshop in Curriculum and Instruction:
1-6 cr. Undergraduate/Graduate.
Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 501 Language Acquisition for Children of Diverse Backgrounds
3 cr. Undergraduate.
Examination of theories of language acquisition and development for children of diverse backgrounds. Teaching methods for developing literacy and biliteracy. Methods of sheltered language instruction.
Prerequisites: soph st, admis to School of Educ, CURRINS 312(P) and CURRINS 240(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 502 Emergent Literacy and Biliteracy in the Early Childhood Classroom
3 cr. Undergraduate.
Study of literacy and biliteracy development of young children and teaching methods to support this development in the early childhood classroom.
Prerequisites: jr st, admis to School of Educ, CURRINS 501(P) and CURRINS 340(C); or con instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 503 Assessment Issues in Language Education
3 cr. Undergraduate/Graduate.
Approaches to assessment of first and second language learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation.
Prerequisites: jr st or instr cons; admis to School of Educ or grad st.
Last Taught: Summer 2016, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 503G Assessment Issues in Language Education
3 cr. Undergraduate/Graduate.
Approaches to assessment of first and second language learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation.
Prerequisites: jr st or instr cons; admis to School of Educ or grad st.
Last Taught: Summer 2016, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 504 Methods for Biliteracy and Language Arts in Primary Grades
3 cr. Undergraduate.
Study of literacy and biliteracy development of young children and teaching methods to support this development in the primary grades.
Prerequisites: jr st, admis to SOE, CURRINS 502(P) and CURRINS 440(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 505 Collaborative Relationships with Families, Schools and Communities
3 cr. Undergraduate.
Theory and strategies for developing effective family-school relationships, with a focus on urban issues. Topics include: teacher-family communications, family education and support, community resources.
Prerequisites: jr st; admis to SOE; or cons instr.
Last Taught: Fall 2016, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 508 Language and Urban Schooling
3 cr. Undergraduate/Graduate.
General overview of the major issues in both first and second language acquisition, and the relevant implications for urban schooling.
Prerequisites: jr st & admis to School of Educ, or grad st; or cons instr.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 508G Language and Urban Schooling
3 cr. Undergraduate/Graduate.
General overview of the major issues in both first and second language acquisition, and the relevant implications for urban schooling.
Prerequisites: jr st & admis to School of Educ, or grad st; or cons instr.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 509 Reading and Social Welfare
1 cr. Undergraduate/Graduate.
Reading process, characteristics of effective reading programs and bibliotherapy as they relate to the work of school social workers.
Prerequisites: admis to Helen Bader School of Social Welfare.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 509G Reading and Social Welfare
1 cr. Undergraduate/Graduate.
Reading process, characteristics of effective reading programs and bibliotherapy as they relate to the work of school social workers.
Prerequisites: admis to Helen Bader School of Social Welfare.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 510 Cooperative Strategies for Pre and Early Adolescents
1-3 cr. Undergraduate/Graduate.
Teaching and management strategies consistent with fostering productive learning environments for pre and early adolescents.
Prerequisites: admis to School of Educ, or grad st.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 510G Cooperative Strategies for Pre and Early Adolescents
1-3 cr. Undergraduate/Graduate.
Teaching and management strategies consistent with fostering productive learning environments for pre and early adolescents.
Prerequisites: admis to School of Educ, or grad st.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 511 Curriculum and Guidance for Social -Emotional Learning
3 cr. Undergraduate.
Study of classroom teaching strategies and curriculum and guidance methods designed to enhance children’s social/emotional learning.
Prerequisites: jr st; admis to School of Educ.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 512 Reflective Practice in Early Childhood Teaching and Learning
3 cr. Undergraduate.
Examination of connections between the urban context, ways of understanding diversity, and professional practice in early childhood classrooms, including implications of pedagogy, curriculum, and instruction.
Prerequisites: soph st, admis to SOE and CURRINS 312(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 514 Field Work II in Early Childhood Education-Primary
1 cr. Undergraduate.
Field experience with children in grades 1 through 3. Completion of assignments associated with CURRINS 504 while gaining practical experience in the classroom.
Prerequisites: jr st, CURRINS 502(P) and CURRINS 504(C).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 516 Field Work in Middle School
2-6 cr. Undergraduate/Graduate.
Implementation of strategies learned in the 6-12 teacher education program
Prerequisites: admis to School of Educ or grad st.
Course Rules: May be taken to max of 6 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 516G Field Work in Middle School
2-6 cr. Undergraduate/Graduate.
Implementation of strategies learned in the 6-12 teacher education program
Prerequisites: admis to School of Educ or grad st.
Course Rules: May be taken to max of 6 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 518 Science Methods I: Middle/Secondary Methods and Fieldwork
3-6 cr. Undergraduate/Graduate.
The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science.
Prerequisites: admis to School of Educ, or grad st.
Course Rules: May not be retaken for cr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 518G Science Methods I: Middle/Secondary Methods and Fieldwork
3-6 cr. Undergraduate/Graduate.
The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science.
Prerequisites: admis to School of Educ, or grad st.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 519 Science Methods II: Middle/Secondary Methods and Fieldwork
3-6 cr. Undergraduate/Graduate.
The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science. Includes fieldwork in middle/secondary school.
Prerequisites: admis to School of Educ or grad st.
Course Rules: May not be retaken for cr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 519G Science Methods II: Middle/Secondary Methods and Fieldwork
3-6 cr. Undergraduate/Graduate.
The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science. Includes fieldwork in middle/secondary school.
Prerequisites: admis to School of Educ or grad st.
Course Rules: May not be retaken for cr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 520 Developing Mathematical Thinking in Young Children
3 cr. Undergraduate/Graduate.
Teaching and learning of mathematics, grades pre k-3. Emphasis on problem-solving, communication, developmentally appropriate experiences with whole numbers, fractions, geometry, measurement, and data analysis.
Prerequisites: jr st, teaching experience.
Last Taught: Fall 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 520G Developing Mathematical Thinking in Young Children
3 cr. Undergraduate/Graduate.
Teaching and learning of mathematics, grades pre k-3. Emphasis on problem-solving, communication, developmentally appropriate experiences with whole numbers, fractions, geometry, measurement, and data analysis.
Prerequisites: jr st, teaching experience.
Last Taught: Fall 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 522 Economic Education
3 cr. Undergraduate/Graduate.
Approaches to teaching economic principles. Applications of economic reasoning to current problems. Curricular implications for school programs, grades K-12.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 522G Economic Education
3 cr. Undergraduate/Graduate.
Approaches to teaching economic principles. Applications of economic reasoning to current problems. Curricular implications for school programs, grades K-12.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 523G Current Issues and Practices in the Teaching of Social Studies
3 cr. Undergraduate/Graduate.
Examination of current issues in social studies curriculum reform. Emphasis on the latest research and teaching practices.
Prerequisites: CURRINS 323(P) or grad st.
Last Taught: Summer 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 525 Environmental Resources Workshop:
1-3 cr. Undergraduate/Graduate.
Methods and curriculum for teaching about environmental problems. Topic-specific prereq will be published in the Schedule of Classes.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 525G Environmental Resources Workshop:
1-3 cr. Undergraduate/Graduate.
Methods and curriculum for teaching about environmental problems. Topic-specific prereq will be published in the Schedule of Classes.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 527 Science in the Elementary School
3 cr. Undergraduate/Graduate.
Study of science curriculum materials; instructional procedures; analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.
Prerequisites: jr st & admis to School of Educ; or grad st.
Last Taught: Spring 2019, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 527G Science in the Elementary School
3 cr. Undergraduate/Graduate.
Study of science curriculum materials; instructional procedures; analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.
Prerequisites: jr st & admis to School of Educ; or grad st.
Last Taught: Spring 2019, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 530 Workshop in Computer Instruction in the Schools
3 cr. Undergraduate/Graduate.
Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.
Prerequisites: jr st; admis to School of Educ.
Course Rules: Not open to students who have cr in ED PSY 530, which is identical to CURRINS 530.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 530G Workshop in Computer Instruction in the Schools
3 cr. Undergraduate/Graduate.
Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.
Prerequisites: jr st; cons instr.
Course Rules: Not open to students who have cr in ED PSY 530, which is identical to CURRINS 530.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 531 Teaching of Computer Science
3 cr. Undergraduate/Graduate.
Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.
Prerequisites: jr st & admis to School of Educ and COMPSCI 351(P); or grad st.
Last Taught: Summer 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 531G Teaching of Computer Science
3 cr. Undergraduate/Graduate.
Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.
Prerequisites: jr st & admis to School of Educ and COMPSCI 351(P); or grad st.
Last Taught: Summer 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 532 Teaching of Mathematics: Secondary
3 cr. Undergraduate/Graduate.
Methods and curriculum for the teaching of mathematics in middle and high schools.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 532G Teaching of Mathematics: Secondary
3 cr. Undergraduate/Graduate.
Methods and curriculum for the teaching of mathematics in middle and high schools.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 533 Foreign Language Workshop
1-4 cr. Undergraduate/Graduate.
Analysis of current developments and changes in foreign language education. Critical examination of specific problems, conflicts, and trends - e.g. in teaching basic skills, teaching culture and literature, use of audio-visual materials and the language laboratory; the effect of current competition and foreign language student teaching supervision. Study of curriculum revision and of instructional materials. Individual curriculum projects or research possibilities.
Prerequisites: jr st & cons dept. Not available for grad cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 533G Foreign Language Workshop
1-4 cr. Undergraduate/Graduate.
Analysis of current developments and changes in foreign language education. Critical examination of specific problems, conflicts, and trends - e.g. in teaching basic skills, teaching culture and literature, use of audio-visual materials and the language laboratory; the effect of current competition and foreign language student teaching supervision. Study of curriculum revision and of instructional materials. Individual curriculum projects or research possibilities.
Prerequisites: jr st & cons dept. Not available for grad cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 534 Instructional Strategies in Early Childhood Education
3 cr. Undergraduate.
Study of instructional strategies and practices in the early childhood classroom to promote effective teaching and engaged learning for all children.
Prerequisites: jr st & admis to SOE; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 535 Methods and Techniques in Affective Education
1-3 cr. Undergraduate/Graduate.
Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.
Prerequisites: jr st.
Last Taught: Fall 2009, Spring 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 535G Methods and Techniques in Affective Education
1-3 cr. Undergraduate/Graduate.
Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.
Prerequisites: jr st.
Last Taught: Fall 2009, Spring 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 536 Literacy 1: Assessing and Teaching Early Literacy
3 cr. Undergraduate/Graduate.
Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.
Prerequisites: jr st; CURRINS 306(C) & admis to SOE; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 536G Literacy 1: Assessing and Teaching Early Literacy
3 cr. Undergraduate/Graduate.
Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.
Prerequisites: jr st, CURRINS 306(C) & admis to SOE; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 537 Literacy 2: Assessing and Teaching Literacy through Early Adolescence
3 cr. Undergraduate/Graduate.
The role of reading and language arts assessment and instruction with diverse learners in 1st-8th grade classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.
Prerequisites: jr st & admis to SOE; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 537G Literacy 2: Assessing and Teaching Literacy through Early Adolescence
3 cr. Undergraduate/Graduate.
The role of reading and language arts assessment and instruction with diverse learners in 1st-8th grade classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.
Prerequisites: jr st & admis to SOE; or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 538 Literacy 3: Introduction to New Literacies
3 cr. Undergraduate/Graduate.
Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.
Prerequisites: jr st, admis to SOE and CURRINS 537(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 538G Literacy 3: Introduction to New Literacies
3 cr. Undergraduate/Graduate.
Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.
Prerequisites: jr st, admis to SOE and CURRINS 537(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 540 Advanced Field Experience in Early Childhood Education
3-6 cr. Undergraduate.
Advanced field experience, culmination of pre-student teaching experiences.
Prerequisites: sr st, admis to SOE and CURRINS 440(P); or cons instr.
Course Rules: May be retaken to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 541 Principles and Methods of Teaching ESL
3 cr. Undergraduate/Graduate.
Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.
Prerequisites: jr st and admis to SOE; or cons instr
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 541G Principles and Methods of Teaching ESL
3 cr. Undergraduate/Graduate.
Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.
Prerequisites: jr st and admis to SOE; or cons instr
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 542 History and Politics of Second Language Education
3 cr. Undergraduate/Graduate.
General overview of the history, politics, legal and social contexts of language education in the United States today.
Prerequisites: jr st or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 542G History and Politics of Second Language Education
3 cr. Undergraduate/Graduate.
General overview of the history, politics, legal and social contexts of language education in the United States today.
Prerequisites: jr st or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 543 Developing Biliteracy
3 cr. Undergraduate/Graduate.
Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.
Prerequisites: jr st or cons instr; admis to School of Educ, or grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 543G Developing Biliteracy
3 cr. Undergraduate/Graduate.
Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.
Prerequisites: jr st or cons instr; admis to School of Educ, or grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 544 Improving the Teaching of Reading:
1-3 cr. Undergraduate/Graduate.
Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st; teaching experience.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 544G Improving the Teaching of Reading:
1-3 cr. Undergraduate/Graduate.
Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st; teaching experience.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/
**CURRINS 545 Reading in the Content Areas: Middle, Junior, and Senior High School**
3 cr. Undergraduate/Graduate.
Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields.
**Prerequisites:** jr st or admis to School of Educ or grad st.
**Last Taught:** Summer 2010.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 545G Reading in the Content Areas: Middle, Junior, and Senior High School**
3 cr. Undergraduate/Graduate.
Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields.
**Prerequisites:** jr st or admis to School of Educ or grad st.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 546 Language, Content, and Comprehensible Input**
3 cr. Undergraduate/Graduate.
Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored.
**Prerequisites:** jr st or cons instr.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 546G Language, Content, and Comprehensible Input**
3 cr. Undergraduate/Graduate.
Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored.
**Prerequisites:** jr st or cons instr.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 547 Curricular Applications of the Internet**
3 cr. Undergraduate/Graduate.
Analysis and construction of internet based instruction focusing on the use of interactive media in grades 1-4.
**Prerequisites:** jr st & admis to School of Educ; or grad st.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 547G Curricular Applications of the Internet**
3 cr. Undergraduate/Graduate.
Analysis and construction of internet based instruction focusing on the use of interactive media in grades 1-4.
**Prerequisites:** jr st & admis to School of Educ; or grad st.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 550 Using Children's Literature to Explore Latin Am/Latino Cultural Heritage**
3 cr. Undergraduate/Graduate.
Using children's books that explore Latin American/Latino cultural heritage.
**Prerequisites:** jr st.
**Course Rules:** Counts as repeat of CURRINS 579 with similar topic.
**Last Taught:** Summer 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 551G Using Children's Literature to Explore Latin Am/Latino Cultural Heritage**
3 cr. Undergraduate/Graduate.
Using children's books that explore Latin American/Latino cultural heritage.
**Prerequisites:** jr st.
**Course Rules:** Counts as repeat of CURRINS 579 with similar topic.
**Last Taught:** Summer 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 551 Teaching of Language Arts**
1-4 cr. Undergraduate/Graduate.
Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings.
**Prerequisites:** jr st & admis to School of Educ; or grad st.
**Last Taught:** Summer 2010, Summer 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 551G Teaching of Language Arts**
1-4 cr. Undergraduate/Graduate.
Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings.
**Prerequisites:** jr st & admis to School of Educ; or grad st.
**Last Taught:** Summer 2010, Summer 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 552 Teaching Reading, Grades 1-3**
3 cr. Undergraduate/Graduate.
Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience.
**Prerequisites:** jr st, Admis to School of Educ; or grad st.
**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.
**Last Taught:** Fall 2013, Spring 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 552G Teaching Reading, Grades 1-3**
3 cr. Undergraduate/Graduate.
Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience.
**Prerequisites:** jr st, Admis to School of Educ; or grad st.
**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.
**Last Taught:** Fall 2013, Spring 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**CURRINS 553 Teaching Language Arts and Children's Literature, Grades 1-3**
3 cr. Undergraduate/Graduate.
Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience.
**Prerequisites:** jr st; admis to School of Educ; or grad st.
**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.
**Last Taught:** Fall 2013, Spring 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/
CURRINS 553G Teaching Language Arts and Children's Literature, Grades 1-3
3 cr. Undergraduate/Graduate.
Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience.
Prerequisites: jr st, admis to School of Educ; or grad st.
Course Rules: Counts as repeat of 3 cr of CURRINS 506.
Last Taught: Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 554 Teaching Reading and Adolescent Literature, Grades 4-8
3 cr. Undergraduate/Graduate.
Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience.
Prerequisites: jr st, admis to School of Educ; CURRINS 552(P); or grad st.
Course Rules: Counts as repeat of 3 cr of CURRINS 507.
Last Taught: Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 554G Teaching Reading and Adolescent Literature, Grades 4-8
3 cr. Undergraduate/Graduate.
Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience.
Prerequisites: jr st, admis to School of Educ; CURRINS 552(P); or grad st.
Course Rules: Counts as repeat of 3 cr of CURRINS 507.
Last Taught: Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 555 Teaching Language Arts, Grades 4-8
3 cr. Undergraduate/Graduate.
Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience.
Prerequisites: jr st, admis to School of Educ; CURRINS 553(P); or grad st.
Course Rules: Counts as repeat of 3 cr of CURRINS 507.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 555G Teaching Language Arts, Grades 4-8
3 cr. Undergraduate/Graduate.
Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience.
Prerequisites: jr st, admis to School of Educ; CURRINS 553(P); or grad st.
Course Rules: Counts as repeat of 3 cr of CURRINS 507.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 556 Professional Seminar 1: Foundations of Curriculum and Instruction
3 cr. Undergraduate/Graduate.
Philosophies of curriculum and instructional models to meet the developmental needs of children in urban contexts.
Prerequisites: jr st, admis to SOE, ED PSY 325(C), CURRINS 306(C) and CURRINS 536(C), or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 556G Professional Seminar 1: Foundations of Curriculum and Instruction
3 cr. Undergraduate/Graduate.
Philosophies of curriculum and instructional models to meet the developmental needs of children in urban contexts.
Prerequisites: jr st, admis to SOE, ED PSY 325(C), CURRINS 306(C) and CURRINS 536(C), or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 557 Professional Seminar 2: Classroom Management: Theory, Practice and Context
3 cr. Undergraduate/Graduate.
Addresses the theoretical frameworks, models and goals in classroom management practices in grades 1-8.
Prerequisites: jr st, admis to SOE, CURRINS 556(P) and CURRINS 307(C); or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 557G Professional Seminar 2: Classroom Management: Theory, Practice and Context
3 cr. Undergraduate/Graduate.
Addresses the theoretical frameworks, models and goals in classroom management practices in grades 1-8.
Prerequisites: jr st, admis to SOE, CURRINS 556(P) and CURRINS 307(C); or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 558 Professional Seminar 3: Building Learning Communities
3 cr. Undergraduate/Graduate.
Exploration and application of strategies that build positive learning climates/communities in urban classrooms in grades 1-8.
Prerequisites: jr st, admis to SOE, CURRINS 557(P) and CURRINS 406(C); or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 558G Professional Seminar 3: Building Learning Communities
3 cr. Undergraduate/Graduate.
Exploration and application of strategies that build positive learning climates/communities in urban classrooms in grades 1-8.
Prerequisites: jr st, admis to SOE, CURRINS 557(P) and CURRINS 406(C); or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 559 Improving Mathematics Teaching and Learning: 1-3 cr. Undergraduate/Graduate.
Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic to 18 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 560G Improving Mathematics Teaching and Learning:
1-3 cr. Undergraduate/Graduate. Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg topic to 18 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 561 Mathematics Learners in Special Education I
3 cr. Undergraduate/Graduate. Introduction to the teaching and learning of mathematics in special education. Emphasis on students' mathematical development, assessment, instructional approaches, and curricular supports.
Prerequisites: jr st; MATH 176(P); admis to Exceptional Education cert prog.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 561G Mathematics Learners in Special Education I
3 cr. Undergraduate/Graduate. Continued study of students' mathematical development, assessment, instructional approaches, and curricular supports.
Prerequisites: jr st; CURRINS 561(P); admis to Exceptional Education cert prog.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 562 Mathematics Learners in Special Education II
3 cr. Undergraduate/Graduate. Continued study of students' mathematical development, instructional approaches, and curricular supports in K-12 mathematics.
Prerequisites: jr st; CURRINS 561(P); admis to Exceptional Education certificate program.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 562G Mathematics Learners in Special Education II
3 cr. Undergraduate/Graduate. Continued study of students' mathematical development, instructional approaches, and curricular supports in K-12 mathematics.
Prerequisites: jr st; CURRINS 561(P); admis to Exceptional Education certificate program.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 565 Pedagogy Labs:
1 cr. Undergraduate. Students concurrently or previously enrolled in content-specific courses will study issues of teaching pedagogy related to that content.
Prerequisites: cons instr.
Course Rules: May be retaken w/chg topic to 6 credit max.
Last Taught: Fall 2012, Summer 2012, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 566 Pedagogy Labs - Linking English Content and Processes with Pedagogy
1 cr. Undergraduate. Examines the instructional implications for English content and processes and is taken concurrently with ENGLISH 201.
Prerequisites: jr st.
Course Rules: Counts as repeat of CURRINS 565 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 567 Pedagogy Labs - Linking History Content and Processes with Pedagogy
1 cr. Undergraduate. Examines the instructional implications for history content and processes and is taken concurrently with HIST 152.
Prerequisites: jr st.
Course Rules: Counts as repeat of CURRINS 565 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 569 Pedagogy Labs - Linking Mathematics Content and Processes with Pedagogy
1 cr. Undergraduate. Examines connections between the content material of mathematics courses MATH 175, MATH 176, MATH 275, MATH 276, MATH 277, MATH 278 and K-12 pedagogical practices. Taken concurrently with one of the courses listed.
Prerequisites: one of the following: MATH 175(C), MATH 176(C), MATH 275(C), MATH 276(C), MATH 277(C) or MATH 278(C).
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 570 Improving Science Teaching and Learning:
1-3 cr. Undergraduate/Graduate. Focuses on instructional and curricular issues in science. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st; teaching experience.
Course Rules: May be retaken w/chg topic to max of 9 cr.
Last Taught: Summer 2015, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 570G Improving Science Teaching and Learning:
1-3 cr. Undergraduate/Graduate. Focuses on instructional and curricular issues in science. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st; teaching experience.
Course Rules: May be retaken w/chg topic to max of 9 cr.
Last Taught: Summer 2015, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 579 Current Topics in Curriculum and Instruction:
1-3 cr. Undergraduate/Graduate. The specific topic will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, cons instr.
Course Rules: May be retaken w/chg topic to max of 9 cr including cr earned under CURRINS 779.
Current Offerings: https://catalog.uwm.edu/course-search/
CRRINS 579G Current Topics in Curriculum and Instruction:
1-3 cr. Undergraduate/Graduate.
The specific topic will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr including cr earned under CRRINS 779.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 580 Mathematics Education:
1-3 cr. Undergraduate/Graduate.
Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: Retakeable.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 580G Mathematics Education:
1-3 cr. Undergraduate/Graduate.
Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: Retakeable.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 585 Best Practices in Early Childhood for Children and Families
3 cr. Undergraduate/Graduate.
Child care as a family-friendly community including integration of child growth and development principles into all aspects of the program.
Prerequisites: junior standing; admis to child care director's program or consent of instructor.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 585G Best Practices in Early Childhood for Children and Families
3 cr. Undergraduate/Graduate.
Child care as a family-friendly community including integration of child growth and development principles into all aspects of the program.
Prerequisites: junior standing; admis to child care director's program or consent of instructor.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 593 Supervision of Student Teaching
1 cr. Undergraduate/Graduate.
Roles and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.
Prerequisites: current teacher certification.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 593G Supervision of Student Teaching
1 cr. Undergraduate/Graduate.
Roles and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.
Prerequisites: current teacher certification.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 601 Early Childhood Seminar in Student Teaching
3 cr. Undergraduate.
Collaboration around challenges encountered in urban student teaching through a structured inquiry format with peers.
Prerequisites: sr st, admis to SOE and CRRINS 640(C); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 602 Early Childhood Education
1-4 cr. Undergraduate/Graduate.
Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 602G Early Childhood Education
1-4 cr. Undergraduate/Graduate.
Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 612 Collaborations for Teachers with Families, Schools, and Communities
3 cr. Undergraduate/Graduate.
Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.
Prerequisites: jr st; admis to SOE; or cons instr.
Course Rules: Counts as repeat of CRRINS 505 and EXCEDUC 651. Jointly offered with and counts as repeat of EXCEDUC 612.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CRRINS 612G Collaborations for Teachers with Families, Schools, and Communities
3 cr. Undergraduate/Graduate.
Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.
Prerequisites: jr st; admis to SOE; or cons instr.
Course Rules: Counts as repeat of CRRINS 505 and EXCEDUC 651. Jointly offered with and counts as repeat of EXCEDUC 612.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 624 Instructional Trajectories for Fraction Concepts and Operations
3 cr. Undergraduate/Graduate.
Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum.
Prerequisites: jr st, teaching experience, or cons instr.
Last Taught: Fall 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 624G Instructional Trajectories for Fraction Concepts and Operations
3 cr. Undergraduate/Graduate.
Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum.
Prerequisites: jr st, teaching experience, or cons instr.
Last Taught: Fall 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 625 Principles and Practices of Teaching Geometry and Geometric Thinking
3 cr. Undergraduate/Graduate.
Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students’ geometric thought.
Prerequisites: jr st, teaching experience.
Course Rules: Counts as repeat of CURRINS 560 with topic Geometry and Geometric Thinking.
Last Taught: Summer 2018, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 625G Principles and Practices of Teaching Geometry and Geometric Thinking
3 cr. Undergraduate/Graduate.
Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students’ geometric thought.
Prerequisites: jr st, teaching experience.
Course Rules: Counts as repeat of CURRINS 560 with topic Geometry and Geometric Thinking.
Last Taught: Summer 2018, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 626 Principles and Practices of Teaching Algebraic Reasoning
3 cr. Undergraduate/Graduate.
Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students’ algebraic reasoning.
Prerequisites: jr st, teaching experience.
Last Taught: Summer 2016, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 626G Principles and Practices of Teaching Algebraic Reasoning
3 cr. Undergraduate/Graduate.
Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students’ algebraic reasoning.
Prerequisites: jr st, teaching experience.
Last Taught: Summer 2016, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 629 Change and Change Strategies in Education
1-4 cr. Undergraduate/Graduate.
This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems.
Prerequisites: jr st, teaching experience.
Course Rules: May be retaken to a 4 cr max.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 629G Change and Change Strategies in Education
1-4 cr. Undergraduate/Graduate.
This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems.
Prerequisites: jr st, teaching experience.
Course Rules: May be retaken to a 4 cr max.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 637 World Language Methods and Materials
3 cr. Undergraduate/Graduate.
Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 637G World Language Methods and Materials
3 cr. Undergraduate/Graduate.
Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 639 Critical Issues and Methods in World Language Education
3 cr. Undergraduate/Graduate.
Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence.
Prerequisites: jr st, CURRINS 637(P) or equiv, or cons instr.
Last Taught: Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 639G Critical Issues and Methods in World Language Education
3 cr. Undergraduate/Graduate.
Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence.
Prerequisites: jr st, CURRINS 637(P) or equiv, or cons instr.
Last Taught: Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 640 Student Teaching in Early Childhood
6-12 cr. Undergraduate.
Full semester experience in an early childhood classroom.
Prerequisites: sr st; admis to SOE; CURRINS 601(C); CURRINS 540(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 642G Teaching Standard English as an Alternate Dialect in Urban Schools
1-4 cr. Undergraduate/Graduate.
Offered once per academic year, once every second summer. Linguistic aspects of application of research and scholarship to the problems of teaching standard english in urban schools. Includes recent curricular developments and micro teaching.
Prerequisites: jr st.
Course Rules: Available as grad level only.
Last Taught: Fall 1985.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 643 Balanced Literacy Instruction in the Elementary School
1-3 cr. Undergraduate/Graduate.
Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics.
Prerequisites: jr st.
Course Rules: May be retaken to 6 cr max. Not open for cr to students with CURRINS 343(ER) or equiv.
Last Taught: Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 643G Balanced Literacy Instruction in the Elementary School
1-3 cr. Undergraduate/Graduate.
Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics.
Prerequisites: jr st.
Course Rules: May be retaken to 6 cr max. Not open for cr to students with CURRINS 343(ER) or equiv.
Last Taught: Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 644 Enhancing Literacy Learning for Diverse Learners:
3 cr. Undergraduate/Graduate.
Teaching reading and writing to diverse learners.
Prerequisites: currently teaching with at least 2 yrs experience; cons instr.
Course Rules: Jointly offered with & subtitles count as repeat of same title of EXCEDUC 644. CURRINS 644 & EXCEDUC 644 may be retaken w/ chg in topic to combined 9 cr max.
Last Taught: Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 644G Enhancing Literacy Learning for Diverse Learners:
3 cr. Undergraduate/Graduate.
Teaching reading and writing to diverse learners.
Prerequisites: currently teaching with at least 2 yrs experience; cons instr.
Course Rules: Jointly offered with & subtitles count as repeat of same title of EXCEDUC 644. CURRINS 644 & EXCEDUC 644 may be retaken w/ chg in topic to combined 9 cr max.
Last Taught: Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 646 University of Wisconsin System Reading Research Symposium
1-3 cr. Undergraduate/Graduate.
Updates students on most recent reading research. Students are required to attend the two-day symposium.
Prerequisites: jr st.
Course Rules: May be retaken for credit.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 646G University of Wisconsin System Reading Research Symposium
1-3 cr. Undergraduate/Graduate.
Updates students on most recent reading research. Students are required to attend the two-day symposium.
Prerequisites: jr st.
Course Rules: May be retaken for credit.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 647 Early Reading Empowerment: Part 1
3 cr. Undergraduate/Graduate.
First semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.
Prerequisites: currently teaching, at least 2 years teaching experience, cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 647G Early Reading Empowerment: Part 1
3 cr. Undergraduate/Graduate.
First semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.
Prerequisites: currently teaching, at least 2 years teaching experience, cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 648 Early Reading Empowerment: Part 2
3 cr. Undergraduate/Graduate.
Second semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.
Prerequisites: CURRINS 647(P), currently teaching, at least 2 years teaching experience, cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 648G Early Reading Empowerment: Part 2
3 cr. Undergraduate/Graduate.
Second semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.
Prerequisites: CURRINS 647(P), currently teaching, at least 2 years teaching experience, cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 649 Children's Literature
1-4 cr. Undergraduate/Graduate.
To acquaint students with the wide range of good books for children and
to provide wide reading experiences in children's literature; evaluation and
use of current materials.
Prerequisites: jr st & admis to School of Educ; or grad st.
Last Taught: Spring 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 649G Children's Literature
1-4 cr. Undergraduate/Graduate.
To acquaint students with the wide range of good books for children and
to provide wide reading experiences in children's literature; evaluation and
use of current materials.
Prerequisites: jr st & admis to School of Educ; or grad st.
Last Taught: Spring 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 650 Reading Interests of Adolescents
3 cr. Undergraduate/Graduate.
Recently published literature for adolescents - types, themes, issues
related to school programs.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 650G Reading Interests of Adolescents
3 cr. Undergraduate/Graduate.
Recently published literature for adolescents - types, themes, issues
related to school programs.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 651 Literature for the Young Child
3 cr. Undergraduate.
Examines literature with young children to develop verbal fluency,
aesthetic awareness and interest in reading. Rationales, specific
instructional strategies, illustration styles and genres are discussed.
Prerequisites: soph st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 653 Children's Literature: The Past Five Years
3 cr. Undergraduate/Graduate.
Analysis of children's books published in the past five years. Arranged
by genres, this course considers issues, trends, evaluative criteria, and
classroom uses of books.
Prerequisites: jr st; CURRINS 649(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 653G Children's Literature: The Past Five Years
3 cr. Undergraduate/Graduate.
Analysis of children's books published in the past five years. Arranged
by genres, this course considers issues, trends, evaluative criteria, and
classroom uses of books.
Prerequisites: jr st; CURRINS 649(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 655 Applied Educational Linguistics
3 cr. Undergraduate/Graduate.
Explanation of linguistic principles which can be applied to language-
based activities in the classroom and which can be useful in solving
language-learning problems.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 655G Applied Educational Linguistics
3 cr. Undergraduate/Graduate.
Explanation of linguistic principles which can be applied to language-
based activities in the classroom and which can be useful in solving
language-learning problems.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 657 Approaches to Teaching and Assessing Texts in the
Secondary Schools
3 cr. Undergraduate/Graduate.
Pedagogy and assessment of literature and other texts and their
classroom applications: canonical and diverse literary selections; literary
critical theory.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 657G Approaches to Teaching and Assessing Texts in the
Secondary Schools
3 cr. Undergraduate/Graduate.
Pedagogy and assessment of literature and other texts and their
classroom applications: canonical and diverse literary selections; literary
critical theory.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 658 Teaching and Assessing English
3 cr. Undergraduate/Graduate.
The objectives, materials, techniques and assessments of teaching
English. Covers language and writing methods.
Prerequisites: jr st, Admis to SOE & CURRINS 657(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 658G Teaching and Assessing English
3 cr. Undergraduate/Graduate.
The objectives, materials, techniques and assessments of teaching
English. Covers language and writing methods.
Prerequisites: jr st, Admis to SOE & CURRINS 657(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRENT OFFERINGS

CURRINS 659 Teaching and Assessing Grammar to Enrich Writing
2-3 cr. Undergraduate/Graduate.
Current research about teaching grammar, and the historical, social, and
political consequences associated with various approaches to grammar
instruction and assessment.
Prerequisites: jr st.
Course Rules: English Educ Cert students enroll for 2 cr; other Cert
students enroll for 3 cr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 659G Teaching and Assessing Grammar to Enrich Writing
2-3 cr. Undergraduate/Graduate.
Current research about teaching grammar, and the historical, social, and
political consequences associated with various approaches to grammar
instruction and assessment.
Prerequisites: jr st.
Course Rules: English Educ Cert students enroll for 2 cr; other Cert
students enroll for 3 cr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 664 Dramatizing Literature in Elementary Classrooms
1-4 cr. Undergraduate/Graduate.
Nature of creativity in children; basic principles of informal playmaking,
including movement, mime, characterization, dialogue, and conflict. Using
children's ideas to develop literature-based dramatizations.
Prerequisites: jr st.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 664G Dramatizing Literature in Elementary Classrooms
1-4 cr. Undergraduate/Graduate.
Nature of creativity in children; basic principles of informal playmaking,
including movement, mime, characterization, dialogue, and conflict. Using
children's ideas to develop literature-based dramatizations.
Prerequisites: jr st.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 668 Introduction to Instructional Technology
1-4 cr. Undergraduate/Graduate.
The utilization of instructional technology. Emphasis is placed upon the
effective integration and utilization of instructional media as based upon
a systems approach to organization. Laboratory exercises included.
Prerequisites: jr st. Not available for grad cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 668G Introduction to Instructional Technology
1-4 cr. Undergraduate/Graduate.
The utilization of instructional technology. Emphasis is placed upon the
effective integration and utilization of instructional media as based upon
a systems approach to organization. Laboratory exercises included.
Prerequisites: jr st. Not available for grad cr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 675 Making Schools Work: Promoting Positive Change in
Chronic Problem Behavior
3 cr. Undergraduate/Graduate.
Methods of applying system theory, cybernetics, and communication
theory concepts in classrooms and schools to help solve recurring
interpersonal problems and improve educational effectiveness.
Prerequisites: grad st or cons instr.
Last Taught: Spring 2009, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 675G Making Schools Work: Promoting Positive Change in
Chronic Problem Behavior
3 cr. Undergraduate/Graduate.
Methods of applying system theory, cybernetics, and communication
theory concepts in classrooms and schools to help solve recurring
interpersonal problems and improve educational effectiveness.
Prerequisites: grad st or cons instr.
Last Taught: Spring 2009, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 700 Field Work in Schools, Agencies and Institutions:
2-6 cr. Graduate.
Supervised field experience planned in conference with the student’s
major professor. An evaluation report required.
Prerequisites: grad st & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 701 Curriculum Planning and Ideologies
3 cr. Graduate.
The concept of elementary and secondary curriculum in modern
american education. Foundation principles and major objectives.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 702 Curriculum Problems and Practices in Early Childhood
Education
4 cr. Graduate.
Current trends in the education of children in day care centers, nursery
schools, kindergartens and primary grades. Opportunities for study of
individual problems of teachers at this level.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 703 Advanced Curriculum in Early Childhood Education
4 cr. Graduate.
Theoretical foundations of curriculum planning in early childhood
education programs.
Prerequisites: grad st.
Course Rules: Counts as repeat of CURRINS 779 with same topic.
Last Taught: Fall 2014, Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 705 Research in Schools and Communities
3 cr. Graduate.
Overview of content and inquiry in curriculum and instruction.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 710 Curriculum for Early Adolescents
2-3 cr. Graduate.
Functions and purposes of schools for early adolescents; historical
developments; types of curricula; instructional methods and techniques; recent developments and trends.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 714 Analysis of Instruction to Improve Teaching and Learning
3 cr. Graduate.
Study of teaching behaviors and models. Examination of factors involved in deciding how to teach. Opportunity to analyze teaching and clarify personal teaching preferences.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Summer 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 715 Guiding Instructional Improvement
3 cr. Graduate.
Methods of applying the knowledge of instruction to solve instructional problems; ways of working with teachers to improve the quality of instructional behavior, styles and strategies.
Prerequisites: grad st; CURRINS 714(P) or cons dept.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 716 Teaching in Urban & Diverse Communities
1-4 cr. Graduate.
Teaching in a culturally pluralistic setting. An examination of how the law, school policy and equity issues affect curriculum and instructional practices.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 720 Curriculum and Standards for School Mathematics
3 cr. Graduate.
Overview of historical and current perspectives on curricular reforms and the standards movement in mathematics education.
Prerequisites: grad st.
Course Rules: Counts as repeat of CURRINS 579 with topic National Mathematics Standards.
Last Taught: Spring 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 721 Advanced Problems in the Teaching of Social Studies
3 cr. Graduate.
For teachers with experience who wish to improve their understanding and skill; equal emphasis on theory and practice.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 724 Advanced Problems in Science Education
3 cr. Graduate.
Study of current issues and problems related to science instruction and curriculum developments, course planning, analysis of learning in the science classroom, techniques of evaluation, review of research in science education.
Prerequisites: grad st & science teaching experience.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 725 Improving Teaching and Learning with Classroom-Based Assessments
3 cr. Graduate.
Development and implementation of classroom-based assessment instruments within existing large-scale state and district accountability systems.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as repeat of ED PSY 725(P).
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 729 Qualitative Research and Field Studies in Educational Settings
3 cr. Graduate.
Examination of qualitative techniques as applied to educational research and evaluation in schools, classrooms, and other educational settings.
Prerequisites: grad st; ED PSY 528(P) or equiv.
Course Rules: Not open to students who have cr in AD LDSP 729 which is identical to CURRINS 729.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 730 Mathematics in Elementary Education
3 cr. Graduate.
Prerequisites: grad st; teaching experience.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 731 Mathematics in the Secondary School
3 cr. Graduate.
Current trends in curriculum and instruction. Opportunity to work on special problems.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 734 Advanced Problems in the Teaching of Foreign Languages
3 cr. Graduate.
Close re-examination of instructional practices and the soundness of the underlying principles in a period of transition regarding aims, methods, content and psychological aspects of foreign language learning. The teaching of culture and other timely material in changing curricular expectations.
Prerequisites: grad st & teaching experience.
Last Taught: Fall 2006, Fall 2005, Fall 2001, Fall 1998.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 740 UWM Writing Project: Teachers as Writers
3 cr. Graduate.
Develop self-awareness as writer and compare understanding to theories of writing instruction. Analyze writing opportunities and reflect on experience in relation to classroom practice.
Prerequisites: grad st; acceptance into UWM Writing Project.
Course Rules: Counts as repeat of CURRINS 779 w/ same topic. Concurrent enrollment in CURRINS 741 required.
Current Offerings: https://catalog.uwm.edu/course-search/
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Last Offered</th>
<th>Current Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 741</td>
<td>UWM Writing Project: Teacher Leadership in Writing</td>
<td>3 cr.</td>
<td>Graduate. Analyze theory and research about writing in classrooms. Synthesize and evaluate various methods that enhance writing instruction leading to developing teacher as leader in writing.</td>
<td>Fall 1986</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
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<tr>
<td>CURRINS 742</td>
<td>UWM Writing Project</td>
<td>1-9 cr</td>
<td>Graduate. Develop as a writer. Analyze theory and research about writing in classrooms. Synthesize and evaluate various methods that enhance writing instruction leading to developing teacher as leader in writing.</td>
<td>Fall 1996</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 747</td>
<td>Reading Assessment and Instruction with Practicum: K-12 Part I</td>
<td>3 cr.</td>
<td>Graduate. Analysis of the factors contributing to reading difficulty; use of formal and informal assessments with implications for instruction. Includes work with student who have reading difficulties.</td>
<td>Fall 1995</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 748</td>
<td>Reading Assessment and Instruction with Practicum: K-12 Part II</td>
<td>3 cr.</td>
<td>Graduate. Diagnosis, teaching, curriculum planning and materials for disabled readers. Students will work with small groups of elementary age disabled readers in a supervised tutorial situation.</td>
<td>Fall 2017</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 751</td>
<td>Language Arts in the Elementary School</td>
<td>3 cr.</td>
<td>Graduate. Survey and critical appraisal of programs, practices and trends, emphasis on oral and written expression including spelling and handwriting; specific study of individual problems.</td>
<td>Fall 1986</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 753</td>
<td>Teaching Language and Composition</td>
<td>3 cr.</td>
<td>Graduate. Consideration of problems, curricular materials and teaching procedures in the areas of language, grammar and written composition, with emphasis on language history and applications of linguistic knowledge.</td>
<td>Fall 1985</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 754</td>
<td>Teaching Literature</td>
<td>3 cr.</td>
<td>Graduate. Curriculum materials, methods of organization and approaches to the study of literature, with attention to problems of teaching prose fiction and nonfiction, drama and poetry. Micro teaching used.</td>
<td>Fall 2008</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 761</td>
<td>Mathematics Instructional Leadership</td>
<td>3 cr.</td>
<td>Graduate. Study and development of teacher leadership for supporting effective mathematics instruction and high-leverage mathematics teaching practices through collaborative cultures and content-focused coaching.</td>
<td>Fall 2016</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 774</td>
<td>College Teaching</td>
<td>3 cr.</td>
<td>Graduate. Analyzes curricular issues and instructional practices in college and adult programs. Research on youth, college influences and adult change will be reviewed.</td>
<td>Fall 2014</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 779</td>
<td>Current Topics in Curriculum and Instruction</td>
<td>1-3 cr</td>
<td>Graduate. Specific topic announced in schedule of classes each time course is offered.</td>
<td>Fall 2017</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
<tr>
<td>CURRINS 799</td>
<td>Independent Reading</td>
<td>1-3 cr</td>
<td>Graduate. Prerequisites: enrollment in master's program.</td>
<td>Fall 2019</td>
<td><a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
</tbody>
</table>
CURRINS 800 Master’s Seminar in Curriculum and Instruction
3 cr. Graduate.
Required for all curriculum and instruction students. Students develop and defend a seminar project. Master’s examination is in conjunction with the seminar.
Prerequisites: grad st; 27 grad cr; cons dept; cons advisor
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 801 Urban Education: Doctoral Seminar in Curriculum & Instruction
3 cr. Graduate.
Curriculum and instruction goals, programs, and practices in urban schools, as analyzed in varying critical perspectives.
Prerequisites: admis to PhD prog; Educ 701(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 802 Recent Research in the Field of Early Childhood Education
4 cr. Graduate.
A study of recent research in the area of early childhood education and in child development at these levels. Practical applications to the programs of day care centers, nursery schools, kindergartens and primary grades will be made.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 803 Reflective Practice: Urban Early Childhood Teaching
4 cr. Graduate.
The relationships between teaching practice and the socio-cultural-historical contexts of teaching, application to teaching through reflective analysis.
Prerequisites: grad st
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 805 History Of Curriculum Development
3 cr. Graduate.
A study of the history of curriculum development in American education including major issues, movements and figures.
Prerequisites: grad st; ED POL 650(P); cons dept.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 813 Instructional Research and Theory
3 cr. Graduate.
Examination of current research and theory concerning teacher behavior and its antecedents and consequences. Implications for teaching teacher training, evaluation of teaching, and classroom research.
Prerequisites: grad st; CURRINS 714(P) or cons dept.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 814 Seminar in Instruction
3 cr. Graduate.
Individual instruction problems are examined. Emphasis is placed upon developing and carrying out a research project dealing with instruction.
Prerequisites: grad st; CURRINS 714(P) or cons dept.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 816 Curriculum Designs for Urban Schools
3 cr. Graduate.
Examination of the problems of urban schools and the implications of these problems for the design of school curriculum.
Prerequisites: grad st; CURRINS 701(P) or CURRINS 716(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 819 Theory and Design of Curriculum
3 cr. Graduate.
Examination of the essential operations of curriculum from the point of view of common curriculum patterns, development of the theoretical considerations underlying the application of these operations to curriculum planning and development.
Prerequisites: grad st; CURRINS 701(P).
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 829 Advanced Qualitative Research Techniques for Education Settings
3 cr. Graduate.
Advanced examination of qualitative research techniques in three areas: conceptual design; data collection methods; and data analysis and reporting.
Prerequisites: AD LDSP 729(P)/CURRINS 729(P) or cons instr.
Course Rules: Jointly offered and counts as a repeat of AD LDSP 829.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 830 Seminar in Elementary School Mathematics Education
3 cr. Graduate.
Critical issues in arithmetic instruction. Survey of research studies and their implications for instruction. Development and discussion of individual research problems.
Prerequisites: grad st; cons dept.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 839 Practicum in Writing from Qualitative Research for Educational Settings
3 cr. Graduate.
Practice in writing from qualitative research data and analysis of qualitative text.
Prerequisites: grad st; AD LDSP 829(P)/CURRINS 829(P) and AD LDSP 829(P)/CURRINS 829(P).
Course Rules: Jointly offered with and counts as a repeat of AD LDSP 839.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 846 Seminar in Developmental Reading:
3 cr. Graduate.
Topics will vary. In-depth study of implications of trends and research for improving instruction and k-12 curriculum planning. Specific topic and any additional prerequisites will be announced in schedule of classes each time course is offered.
Prerequisites: grad st; CURRINS 746.
Course Rules: May be retaken with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/
CURRINS 849 Guiding and Directing School Reading Programs K-12 3 cr. Graduate.
The role of the Reading Specialist/Literacy Coach in guiding and directing K-12 reading programs and supervising literacy instruction. Required for WI Reading Specialist license.
Prerequisites: grad st; CURRINS 747(P) and CURRINS 748 (P); CURRINS 646(P) or cons instr.
Last Taught: Summer 2019, Summer 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 861 Seminar in Mathematics Urban Education 3 cr. Graduate.
Focus on issues of equity and access to high-quality mathematics teaching, curriculum, and assessment for students with diverse cultural, linguistic, and economic backgrounds.
Prerequisites: grad st
Last Taught: Spring 2020, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 864 Integrating Mathematics Education Research into Curriculum and Instruction 3 cr. Graduate.
Using results from research on mathematics teaching and learning to shape teaching practice, including impacts on curriculum development, implementation, and pedagogical practice.
Prerequisites: grad st.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 865 Mathematics Program Design and Development 3 cr. Graduate.
Research-based practices for guiding and developing school and district mathematics curriculum and programs. Inquiry into problems of practice in mathematics education.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 870 Research Practicum 1-3 cr. Graduate.
Independent research practicum. Application of qualitative and quantitative research methods to conduct a small-scale research study. Develop research questions, collect and analyze data, and report findings.
Prerequisites: grad st.
Course Rules: Course is re-takeable to 30 credits.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 880 Proseminar in Urban Education: Curriculum and Instruction 2 cr. Graduate.
An examination of selected problems and issues in urban education.
Prerequisites: grad st; admis to urban educ doctoral prog.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 888 Candidate for Degree 0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 890 Master's Research or Thesis 3-6 cr. Graduate.
Research or thesis work for students in the master's program in curriculum and instruction.
Prerequisites: grad st; cons advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 900 Seminar In Curriculum Construction 3 cr. Graduate.
Opportunity to develop curriculum materials or work on individual problems.
Prerequisites: grad st; cons dept.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 990 Doctoral Research or Thesis 1-3 cr. Graduate.
Prerequisites: admis to doctoral prog.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 993 Seminar in the Pre-Service and In-Service Education of Teachers 3 cr. Graduate.
For advanced students interested in problems of teacher education.
Prerequisites: grad st; cons dept.
Current Offerings: https://catalog.uwm.edu/course-search/

CURRINS 999 Independent Reading 1-3 cr. Graduate.
For the benefit of doctoral students unable to secure needed content in regular courses.
Prerequisites: post-masters or doctoral st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

Dance (DANCE)

DANCE 103 Introduction to Iyengar Yoga 2-3 cr. Undergraduate.
Iyengar Yoga method and philosophy presented in a format to enrich artistic appreciation of Yoga as a physical artform.
Prerequisites: none.
Course Rules: May be retaken to max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 110 Survey of Global Dance: Rituals, Performance and Community
3 cr. Undergraduate.
Basic technique, implementation, lectures, films and discussions on dance history, philosophy, theory, and survey of current trends.
Prerequisites: none.
Course Rules: May be retaken to a max of 2 sem.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 111 Ballet I
2-3 cr. Undergraduate.
This beginning level class introduces ballet principles for those with little or no previous studio training. Alignment, verticality, and basic ballet movements are stressed.
Prerequisites: none.
Course Rules: May be retaken to a max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 112 Contemporary Dance Practice: Ballet Tradition II
2-3 cr. Undergraduate.
A continuation of Dance 111.
Prerequisites: Dance 111(P) or Dance major.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 113 Modern Dance Technique I
2-3 cr. Undergraduate.
Introduction to basic elements and principles of modern dance. Anatomically correct use of body, moving with awareness, and use of varied movement qualities are stressed.
Prerequisites: none.
Course Rules: Dance majors register for 2 cr. Non-majors register for 3 cr. May be retaken to max of 9 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 114 Contemporary Dance Practice: Modern Tradition II
2-3 cr. Undergraduate.
Continuation of Dance 113.
Prerequisites: Dance major or Dance 113(P).
Course Rules: May be retaken to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 115 Jazz Dance I
1-3 cr. Undergraduate.
Basics of percussive and lyrical jazz styles.
Prerequisites: none.
Course Rules: May be retaken to a max of 3 sem.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 116 Jazz Dance II
1-3 cr. Undergraduate.
A continuation of Dance 115.
Prerequisites: Dance 115(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 117 Tap I
1-3 cr. Undergraduate.
The basics of tap dancing designed to instill rhythm and a sense of style.
Prerequisites: none.
Course Rules: May be retaken to max of 2 sem.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 122 African Dance & Diaspora Technique I
2-3 cr. Undergraduate.
Philosophical and applied foundations of African-American dance. Aesthetics, style, musical accompaniment, the role of dance as expression of socio-cultural experience. Emphasis on movement.
Prerequisites: none.
Course Rules: May be retaken to max of 3 sem.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 123 African Dance & Diaspora Technique II
2-3 cr. Undergraduate.
A continuation of Dance 122.
Prerequisites: Dance 122(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 125 Introduction to Dancemaking Skills
3 cr. Undergraduate.
A broad introduction to contemporary dancemaking choreographic and improvisational skills.
Prerequisites: Dance major.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 131 Community Engagement Seminar
1 cr. Undergraduate.
A seminar to orient Dance majors to UWM, PSOA, Dance Department, Milwaukee dance community, and successful life as a dancer.
Prerequisites: Dance major.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 209 Dance Production
2 cr. Undergraduate.
Introduction to dance production theory, design and practical skills.
Prerequisites: Dance major or cons instr.
Last Taught: Fall 2018, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 211 Contemporary Dance Practice: Ballet Tradition III
2-3 cr. Undergraduate.
A continuation of Dance 112.
Prerequisites: Dance 112(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 212 Contemporary Dance Practice: Ballet Tradition IV
2-3 cr. Undergraduate.
A continuation of Dance 211.
Prerequisites: Dance 211(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 213 Contemporary Dance Practice: Modern Tradition III
2-3 cr. Undergraduate.
Continuation of Dance 114.
Prerequisites: Dance 114(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 214 Contemporary Dance Practice: Modern Tradition IV
2-3 cr. Undergraduate.
A continuation of Dance 213.
Prerequisites: Dance 213(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 217 Tap II
2-3 cr. Undergraduate.
Continued exploration of tap dance technique. Study of complex rhythmic combinations and movements.
Prerequisites: Dance 117 (P) or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 219 Arts in Community Service
3 cr. Undergraduate.
Students acquire means to assess personal learning and techniques to assess impact of their service-learning work on community partner organizations. Prereq for regis in service-learning component of a dance course.
Prerequisites: none.
Last Taught: Spring 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 220 Body Sense
3 cr. Undergraduate.
This course intends to provide an environment for creative exploration of individual body awareness, integration of body-mind and experiencing the body in space.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 221 Body Sense II
2-3 cr. Undergraduate.
Movement exercises from varied theories; intensified self-observation and documentation of experience. Stress on intrapersonal, interpersonal, emotional, and existential intelligences.
Prerequisites: Dance 220(P).
Course Rules: May be retaken to max of 2 sem.
Last Taught: Spring 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 222 African Dance & Diaspora Technique III
2-3 cr. Undergraduate.
A continuation of Dance 123.
Prerequisites: Dance 123(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 223 African Dance & Diaspora Technique IV
2-3 cr. Undergraduate.
A continuation of Dance 222.
Prerequisites: Dance 222(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 231 Music and Dancers I
3 cr. Undergraduate.
Beginning study of the relationship between dance and music. Emphasis on musical awareness, development of listening skills and the application of such skills to movement experiences.
Prerequisites: Dance or Inter-Arts major or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 233 Improvisation for Dancemaking
3 cr. Undergraduate.
A structured exploration of movement invention process, and structuring movement sequences through use of movement games and systems.
Prerequisites: Dance major or cons instr.
Course Rules: May be retaken to max of 2 sem.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 250 Sophomore Seminar
0 cr. Undergraduate.
Discussion of topics for 2nd year Dance majors.
Prerequisites: Dance 192(C).
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 251 Laban Movement Analysis I
3 cr. Undergraduate.
Exploration of the dynamics of movement, including space/time weight flow combinations, the body’s approach to space, basic spatial forms (dimensional cross, planes, cube, tetrahedron), introduction to phrase writing.
Prerequisites: successful completion of QL-A.
General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 261 Junior Seminar
0 cr. Undergraduate.
Discussion of topics for 3rd year Dance majors.
Prerequisites: Dance 250(C).
Course Rules: Fee for 1 cr assessed.
Last Taught: Spring 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 309 Dance Production Practicum
1 cr. Undergraduate.
Dance 309 is a continuation of Dance 209 focusing on the application of an array of production skills.
Prerequisites: Dance 209(P) or cons instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 310 Jazz III
2-3 cr. Undergraduate.
Continued study of jazz dance vocabulary and movement concepts.
Prerequisites: Dance 116 (P) or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 311 Contemporary Dance Practice: Ballet Tradition V
3 cr. Undergraduate.
Continuation of Dance 212.
Prerequisites: Dance 212(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 312 Contemporary Dance Practice: Ballet Tradition VI
3 cr. Undergraduate.
Continuation of Dance 311.
Prerequisites: Dance 311(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 313 History of Dance in the African Diaspora
3 cr. Undergraduate.
The dance traditions of Africa and the Diaspora.
Prerequisites: successful completion of OWC-A
General Education Requirements: A, CD, OWCB
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 314 Contemporary Dance History
3 cr. Undergraduate.
Developments in modern dance from 1890's to the present with emphasis on comparative philosophies.
Prerequisites: successful completion of OWC-A
General Education Requirements: OWCB
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 315 History of the American Musical Theater
3 cr. Undergraduate.
Introduction to the origins, development and evolution of the American musical theater.
Prerequisites: successful completion of OWC-A.
General Education Requirements: A, OWCB
Last Taught: Fall 2018, Fall 2014, Fall 2011, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 317 Contemporary Dance Practice: Modern Tradition V
3 cr. Undergraduate.
Continuation of Dance 214.
Prerequisites: Dance 214(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 318 Contemporary Dance Practice: Modern Tradition VI
3 cr. Undergraduate.
Continuation of Dance 317.
Prerequisites: Dance 317(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 319 Dance Service-Learning
1-3 cr. Undergraduate/Graduate.
Service-Learning as field work in a community partnership setting under supervision of Dance faculty member.
Prerequisites: jr st; Dance 219(P), & cons instr.
Course Rules: Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 319G Dance Service-Learning
1-3 cr. Undergraduate/Graduate.
Service-Learning as field work in a community partnership setting under supervision of Dance faculty member.
Prerequisites: jr st; Dance 219(P), & cons instr.
Course Rules: Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 320 Rituals and Culture
2-3 cr. Undergraduate.
Sources, dimensions, and elements of ritual; values being ritualized.
Creating ritual components through storytelling, singing/chanting.
movement/gestures, wearing/carrying special clothing/objects.
Prerequisites: soph st.
Course Rules: May be retaken to max of 2 sem.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 321 Alexander Technique for the Performer
2-3 cr. Undergraduate.
Introduction to the principles of Alexander Technique as it applies to
performing artists and new media collaborations.
Prerequisites: none.
Course Rules: Dance Majors and Somatics Minors enroll for 2 cr; all other
majors enroll for 3 cr. May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 322 African Dance & Diaspora Technique V
2-3 cr. Undergraduate.
A continuation of Dance 223.
Prerequisites: Dance 223(P) or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 323 Body Conditioning: Pilates Method
2-3 cr. Undergraduate.
Supervised exercises providing special training for strength, balance, and
endurance as well as anatomical study.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 325 Pointe and Variations
2 cr. Undergraduate.
The study of pointe technique and Ballet variations.
Prerequisites: Dance major or cons instr.
Course Rules: May be retaken to max of 2 sem.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 327 Dance for the Musical Theatre I
2-3 cr. Undergraduate.
Study of the role and use of dance in theatrical productions.
Prerequisites: Dance 111(P) and 115(P), or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Last Taught: Fall 2018, Spring 2016, Fall 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 331 African Percussion Ensemble
3 cr. Undergraduate.
Hands-on experience in drumming and percussion techniques from Africa
and the Diaspora.
Prerequisites: Dance or Inter-Arts major or cons instr.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 350 Upper-Level Seminar
0 cr. Undergraduate.
Discussion of topics for upper-level Dance majors.
Prerequisites: Dance 250(C).
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 352 Digital Media Portfolio for Performers
3 cr. Undergraduate.
Introduction to digital tools for technique and choreographic portfolios.
Prerequisites: jr st or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 360 Movement and Learning
3 cr. Undergraduate.
Effect of movement on learning. Learned movement patterns as learning
preparation. Centering, focusing, mind-clearing activities. Creative
movement activities for creative problem-solving.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 361 Dance in Elementary Education
3 cr. Undergraduate.
A study of the relationship of dance experiences to the growth and
development of the elementary school child. Discussion, lectures,
experimentation and analysis of dance materials. Suitability of materials
for various age groups and situations. Teaching of children's dance
classes.
Prerequisites: Dance or Education major or cons instr.
Last Taught: Fall 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 362 Dance in Secondary Education and College
3 cr. Undergraduate.
Methods and philosophy of teaching dance in the secondary school.
Theory and practice in solving problems arising in practical teaching
situations. Observation of dance classes.
Prerequisites: Dance major or cons instr.
Last Taught: Fall 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 370 World Movement Traditions:
2-3 cr. Undergraduate.
Dance and movement traditions of world cultures; different cultures each
semester.
Prerequisites: none.
Course Rules: May be retaken to max of 2 sem per topic.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 371 Applied Anatomy
3 cr. Undergraduate.
Principles and use of the mind-body construct to aid in understanding
movement through ideo-kinetics.
Prerequisites: dance majors, somatics minor or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 403 Intermediate Yoga For Dancers
2-3 cr. Undergraduate/Graduate.
A continuation of Dance 103 stressing the performance and integration of more advanced asanas.
Prerequisites: Dance 103, or grad st in Dance component of MFA prog, or cons instr.
Course Rules: May be retaken to a max of 2 sem.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 403G Intermediate Yoga For Dancers
2-3 cr. Undergraduate/Graduate.
A continuation of Dance 103 stressing the performance and integration of more advanced asanas.
Prerequisites: Dance 103, or grad st in Dance component of MFA prog, or cons instr.
Course Rules: May be retaken to a max of 2 sem.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 411 Field Work in Dance
2 cr. Undergraduate.
Dance education field experiences in schools, agencies and institutions.
Prerequisites: Dance majors and Dance 361(P) or 362(P) & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 412 Dance Composition I
3 cr. Undergraduate.
Resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity.
Prerequisites: Dance major or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 413 Dance Composition II
3 cr. Undergraduate.
A continuation of Dance 412.
Prerequisites: Dance 412(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 414 Dance Composition III
2-3 cr. Undergraduate.
Investigation of advanced choreographic, musical, technical challenges in making site-specific performance work.
Prerequisites: Dance 412(P) & 413(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 415 Movement and New Media Collaborations
3 cr. Undergraduate.
Required collaborative new media composition course in the IAT Post-Portfolio Core. Integration of movement and new media.
Prerequisites: Dance or Inter-Arts/IAT major or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 420 Creating Dance in the Community
3 cr. Undergraduate.
Understanding and mastering artistic and collaborative/interactive skills for use in community and artistic settings.
Prerequisites: Dance 219(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 421 Alexander Technique Practicum
2 cr. Undergraduate.
Dance 421 is a continuation of Dance 321 focusing on more in-depth study and application of Alexander Technique for performers.
Prerequisites: Dance 321(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 427 Dance for the Musical Theatre II
2-3 cr. Undergraduate.
Continued advanced study of dance for theatrical productions. Includes analysis of signature dances from Broadway and film musicals.
Prerequisites: Dance 327(P) or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Last Taught: Spring 2019, Fall 2016, Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 441 History of African Dance Theory I
3 cr. Undergraduate.
Aesthetics and movement sensibilities throughout the African Diaspora.
Prerequisites: Dance 313(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 460 Teaching Dance in Community Settings
3 cr. Undergraduate.
Prepare dance artists to teach and create dance experiences for people in all ages of the human lifespan, and in a wide range of community settings.
Prerequisites: Dance or Education major or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 485 Student Teaching in Dance in Elementary Schools
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.
Prerequisites: BFA in Dance or equiv & admis to teaching cert prog in Dance.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 486 Student Teaching in Dance in Secondary Schools
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.
Prerequisites: BFA in Dance or equiv & admis to teaching cert in Dance.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 489 Workshop in Dance:
1-6 cr. Undergraduate.
An opportunity for students to deal independently in diversified creative aspects of dance such as choreo-cinema or environmental dance.
Prerequisites: Dance major or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 490 Repertoire and Ensemble
0-3 cr. Undergraduate.
Practicum in group performance in dance productions, touring groups and performances related to the department. Includes original works from classical and contemporary repertoire.
Prerequisites: Dance major or cons instr.
Course Rules: When taken for 0 credit, fee for 1 credit assessed. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 491 Repertory/Student Choreographer
0-1 cr. Undergraduate.
Practicum in performing with undergraduate student choreographers on senior projects or composition showings.
Prerequisites: Dance major or cons instr.
Course Rules: When taken for 0 credit, fee for 1 credit assessed. May be retaken to 4 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 497 Study Abroad in Dance:
1-12 cr. Undergraduate/Graduate.
Interdisciplinary and foundational learning in the area of world dance through interactions with and explorations in differing cultures and areas.
Prerequisites: jr st or cons instr; & acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Summer 2019, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 497G Study Abroad in Dance:
1-12 cr. Undergraduate/Graduate.
Interdisciplinary and foundational learning in the area of world dance through interactions with and explorations in differing cultures and areas.
Prerequisites: jr st or cons instr; & acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Summer 2019, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 522 African Dance & Diaspora Technique VI
2-3 cr. Undergraduate.
A continuation of Dance 322.
Prerequisites: Dance 322(P) or cons instr.
Last Taught: Spring 2015, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 541 History of African Dance Theory II:
3 cr. Undergraduate.
Further study in the aesthetics and movement sensibilities throughout the African Diaspora.
Prerequisites: Dance 441(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 601 Senior Project
3 cr. Undergraduate.
Composition of an original work to be presented for performance, or planning and implementation of a major dance project on the campus or in the community.
Prerequisites: Dance major, Somatics minor or cons instr.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 611 Pilates Method Observation and Practice
1 cr. Undergraduate.
Students will engage in Pilates Method observation and teaching practice.
Prerequisites: Pilates certificate student or consent of instructor.
Course Rules: Retakeable to 2 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 623 Body Conditioning: Pilates Method II
2-3 cr. Undergraduate.
Concentrated and advanced study of the Pilates Method incorporating Pilates equipment to enhance skills developed in Dance 323.
Prerequisites: Dance 323(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 624 Feldenkrais for Performers
2 cr. Undergraduate.
How the teaching pedagogy and theories of The Feldenkrais Method® is applicable to any movement-focused situation, especially dance.
Prerequisites: jr st. or cons instr.
Course Rules: Counts as repeat of Dance 489 and 889 with same topic.
May be retaken to 6cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 685 Seminar in Pilates Student Teaching
2 cr.
Student teaching practices in Pilates Method.
Prerequisites: Pilates certificate student or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 699 Independent Study in Dance
1-4 cr. Undergraduate.
Individual program of supervised study in Dance under the direction of the instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 12 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 701 Dance Composition I
3 cr. Graduate.
An investigation of resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity.
Prerequisites: grad st in MFA in Dance; conc reg Dance 733(C).
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 702 Dance Composition II
3 cr. Graduate.
A continuation of Dance 701.
Prerequisites: grad st in MFA in Dance; Dance 701(P), conc reg Dance 734(C).
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 711 Theory and Techniques of Ballet: Intermediate
2 cr. Graduate.
Technical study of classical ballet.
Prerequisites: grad st in MFA in Dance prog & audition.
Course Rules: May be repeated twice for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 712 Theory and Techniques of Ballet: Intermediate
2 cr. Graduate.
A continuation of Dance 711.
Prerequisites: grad st; Dance 711 or audition.
Course Rules: May be repeated twice for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 717 Theory and Techniques of Contemporary Concert Dance: Intermediate
2 cr. Graduate.
An intensive course designed to develop understanding of the major techniques of contemporary concert dance.
Prerequisites: grad st in MFA in Dance prog & audition.
Course Rules: May be repeated twice for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 718 Theory and Techniques of Contemporary Concert Dance: Intermediate
2 cr. Graduate.
A continuation of Dance 717.
Prerequisites: grad st MFA in Dance; Dance 717 or audition.
Course Rules: May be repeated twice for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 721 Alexander Technique, Developmental Movement and Dance
1-3 cr. Graduate.
A hands-on exploration of the application of the Alexander Technique to advanced dance training through developmental movement.
Prerequisites: grad st in MFA in Dance prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 722 Alexander Technique Practicum
1-3 cr. Graduate.
Continuation of Dance 721 focusing on a more in-depth study and application of Alexander Technique for advanced dancers.
Prerequisites: grad st in MFA in Dance prog & Dance 721
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 723 Pilates Technique and Applications
2 cr. Graduate.
Use of Pilates method to understand and articulate essential concepts and theories of movement, and refine dance technique.
Prerequisites: grad st in MFA in Dance or cons instr.
Course Rules: May be retaken once.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 724 Feldenkrais for Performers
3 cr. Graduate.
Application of the pedagogical theories and practical strategies of The Feldenkrais Method® to any movement-focused situation, from dance to music or athletics.
Prerequisites: grad st.
Course Rules: Retakeable to 6 credits max.
Last Taught: Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 733 Improvisation 1
3 cr. Graduate.
Techniques and structures for improvisation—the development of processes for evolving movement material from an exploration of the dynamics of inter and intra-relationships, and environment.
Prerequisites: admission to MFA in Dance program.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 734 Improvisation 2
3 cr. Graduate.
A continuation of Dance 733.
Prerequisites: grad st MFA in Dance; Dance 733(P) & conc reg in Dance 702(C).
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 743 Dynamic Analysis of Movement I
2 cr. Graduate.
Exploration of personal patterning and discovery of movement sources at the body level. Incorporates material from bartenieff fundamentals, feldenkrais, and sweigard.
Prerequisites: grad st in MFA in Dance prog.
Last Taught: Fall 2016, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 744 Dynamic Analysis of Movement II
2 cr. Graduate.
A continuation of Dance 743. Advanced body level work, application of bartenieff fundamentals to dance technique.
Prerequisites: grad st MFA in Dance & Dance 743(P).
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 751 Laban Movement Analysis
3 cr. Graduate.
Theory and movement practice in effort/shape for use both in performance and in choreography.
Prerequisites: grad st in MFA in Dance prog.
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 761 Survey of Dance Literature and Bibliography  
3 cr. Graduate.  
Lecture, research, and discussion of the major English language dance reference works, and of dance research publications.  
Prerequisites: grad st in MFA in Dance prog.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 762 Dance in Secondary Education and College  
3 cr. Graduate.  
Prerequisites: grad st in MFA in Dance prog.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 771 History of Renaissance and Baroque Dance  
3 cr. Graduate.  
Lecture, discussion of readings of the periods (in translation). Emphasis also upon performing some of the period dances.  
Prerequisites: grad st in dance component of MFA prog.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 772 American Concert Dance of the 20th and 21st Century  
3 cr. Graduate.  
Graduate seminar in special topics of American concert dance of the twentieth and twentieth first century.  
Prerequisites: admis to MFA in Dance prog.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 775 Valuing and Evaluation of Dance  
3 cr. Graduate.  
Observing and describing dancing and choreography and shaping values.  
Prerequisites: grad st.  
Last Taught: Spring 2012.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 790 Repertoire and Ensemble  
1-3 cr. Graduate.  
Practicum in group performance in dance department productions, touring groups, and performances related to the dance department. Includes original works from classical and contemporary repertoire.  
Prerequisites: grad st in MFA in Dance program.  
Course Rules: May be repeated to max of 12 cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 799 Independent Study  
1-3 cr. Graduate.  
Individual faculty and student will define the teaching/learning contract for the semester and agree on the credit.  
Prerequisites: grad st.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 7998 Independent Study  
1-3 cr. Graduate.  
Independent study for grad st.  
Prerequisites: grad st & admis to MFA in Dance prog.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 801 Choreography I  
3 cr. Graduate.  
Creating fully mounted works; choreography, performance quality, lighting decor, costumes.  
Prerequisites: grad st in Dance choreography track of MFA in Dance prog; Dance 701(P) & 702(P) or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 802 Choreography II  
3 cr. Graduate.  
Creating fully mounted works of greater length and complexity.  
Prerequisites: grad st in Dance Choreography track of MFA in Dance prog; Dance 701(P), 702(P), 801(P), or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 831 Sound Design for Dance  
3 cr. Graduate.  
This course explores the theoretical, technical, and creative work of sound design as it relates to the contemporary dance artist.  
Prerequisites: grad st in MFA in Dance.  
Last Taught: Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 861 Research Methodology for Dance  
3 cr. Graduate.  
Lecture, formulation of research proposal, research and write-up of a dance research problem.  
Prerequisites: grad st & admis to MFA in Dance prog.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 871 Applied Anatomy for Dance  
2-3 cr. Graduate.  
Study of human bony and neuromuscular structures in theory and movement. Lec only for 2 cr; lec & lab for 3 cr.  
Prerequisites: grad st in dance component of MFA prog; Dance 711(P) & 717(P) or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 873 Field History: Contemporary Dance Festivals  
2-4 cr. Graduate.  
Research, reading, attendance and documentation on selected festivals/series events. Pre-study of choreography/performance style, background, influences, artistic themes. Group discussions and evaluations.  
Prerequisites: grad st in MFA in Dance prog.  
Course Rules: May be repeated with permission to max of 9 cr.  
Last Taught: Fall 2019, Fall 2018, Summer 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DANCE 880 Developing Performance Quality  
1-3 cr. Graduate.  
Studies in dynamics of specific choreography.  
Prerequisites: grad st in MFA in Dance prog; Dance 711 & 717 or cons instr.  
Course Rules: Cr determined prior to regis. May be repeated for up to 6 cr.  
Current Offerings: https://catalog.uwm.edu/course-search/
DANCE 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 889 Special Workshops:
1-3 cr. Graduate.
Special short intensive workshops of 1-4 weeks during inter-terms or summer sessions presented by guest artists.
Prerequisites: grad st in MFA in Dance prog or cons instr.
Course Rules: May be retaken to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DANCE 990 Dance Final Thesis/Project
2-4 cr. Graduate.
Final demonstration of craft and artistry mastered in program, when completion approved by project committee.
Prerequisites: grad st MFA in Dance; cons dept chair.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Diagnostic Imaging (DMI)

DMI 101 Introduction to Medical Imaging
1 cr. Undergraduate.
Introduction to Diagnostic Medical Imaging modalities with a special emphasis on Radiologic Technology and Diagnostic Medical Sonography.
Prerequisites: none.
Course Rules: Counts as repeat of BMS 290 with similar topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 306 Imaging Procedures I
5 cr. Undergraduate.
Radiographic anatomy and procedures related to upper and lower extremities, chest, abdomen, and barium studies. Pediatric imaging is discussed.
Prerequisites: jr st, BioMed Sci prog or cons instr.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 307 Seminar in Radiography I
3 cr. Undergraduate.
Basic concepts of patient care, including consideration for the cultural, physical and psychological needs of the patient and family.
Prerequisites: jr st, BioMed Sci prog or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 308 Imaging Procedures II
5 cr. Undergraduate.
Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed.
Prerequisites: jr st; BioMed Sci prog or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 309 Imaging Procedures III
3 cr. Undergraduate.
Radiographic anatomy and procedures for the cranium and facial bones; pediatric imaging for each procedure will be discussed.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 310 Introduction to Sonography
3 cr. Undergraduate.
Introduction to Diagnostic Medical Sonography with an overview of basic terminology, techniques, and equipment.
Prerequisites: jr st; BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 311 Abdominal Sonography-I
3 cr. Undergraduate.
Anatomy, physiology, pathology, and pathophysiology of the abdominal vessels and organs as they relate to sonography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 312 Abdominal Sonography-II
3 cr. Undergraduate.
Anatomy, physiology, pathology, and pathophysiology of the kidneys and abdominal organs as they relate to sonography.
Prerequisites: jr st BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 313 Sonography Clinical Education I
3 cr. Undergraduate.
Introduction to sonography scanning and development of clinical skills.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 319 Abdominal Sonography III
2 cr. Undergraduate.
Anatomy, physiology, pathology, and pathophysiology of the male pelvis, intraoperative, and pediatric specialty exams as they relate to sonography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
DMI 320 Obstetrics/Gynecology Sonography I  
3 cr. Undergraduate.
Normal gross, relational and sonographic anatomy of the female pelvic region. Physiology and related laboratory and clinical findings for disease processes are discussed.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 321 Obstetrics/Gynecology Sonography II  
3 cr. Undergraduate.
Gravid uterus and fetal development. Gestational dating methods, embryology, and maternal and fetal anatomy.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 322 Obstetrics/Gynecology Sonography III  
3 cr. Undergraduate.
Fetal anomalies, disease processes, and pathologies. Various fetal and maternal pathologies explained in sonographic terms.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Summer 2020, Summer 2019, Fall 2018, Summer 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 323 Sonographic Principles and Instrumentation  
3 cr. Undergraduate.
Characteristics of sound and mechanism of sonographic image production and display. Potential biological effects, Safety and mathematical principles.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 324 Sonography Clinical Education II  
3 cr. Undergraduate.
Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 325 Specialized Sonography  
2 cr. Undergraduate.
Embryology, structure, physiology, and pathology of the thyroid, breast, and testicle. Normal and abnormal gross, cross-sectional, and relational sonographic anatomy.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Summer 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 326 Sonography Clinical Education III  
3 cr. Undergraduate.
Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Summer 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 327 Foundations of Sonography I  
2 cr. Undergraduate.
Initial introduction to diagnostic medical sonography with an overview of basic terminology, techniques, and equipment.
**Prerequisites:** jr st, BioMed Sci prog or cons instr.
**Last Taught:** Summer 2020, Summer 2019, Summer 2017, Summer 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 328 Foundations of Sonography II  
1 cr. Undergraduate.
Introduction to diagnostic medical sonography with an overview of basic techniques and equipment.
**Prerequisites:** DMI 327(P); jr st; BioMed Sci prog or cons instr.
**Last Taught:** Fall 2019, Fall 2017, Fall 2016, Fall 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 336 Cardiovascular Principles I  
4 cr. Undergraduate.
Introduction to cardiac physiology, mechanical events, left ventricle function indicators, timing of mitral and aortic flow, auscultation, phonocardiography, hemodynamics and Doppler applications of echocardiography.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 337 Clinical Education I - Echocardiography  
3 cr. Undergraduate.
Clinical practicum rotations including adult echocardiography.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 340 Embryology of the Cardiovascular System  
2 cr. Undergraduate.
Development and developmental anomalies of the cardiovascular system.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 341 Adult Echocardiography - Valvular Pathology  
3 cr. Undergraduate.
Introduction to cardiac pathology seen on echocardiograms in the adult population.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

DMI 342 Clinical Education II - Echocardiography  
3 cr. Undergraduate.
Clinical practicum rotations including adult and pediatric echocardiography.
**Prerequisites:** jr st in BioMed Sci prog or cons instr.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
DMI 345 Pediatric Echocardiography I  
3 cr. Undergraduate.  
Introduction to various types of congenital heart disease and pediatric cardiac procedures.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 346 Adult Echocardiography - Cardiomyopathies  
2 cr. Undergraduate.  
Cardiovascular disease and diagnostic cardiac procedures in the adult population.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 347 Clinical Education III - Echocardiography  
3 cr. Undergraduate.  
Clinical practicum which includes adult and pediatric echocardiography clinical rotations with focus on advanced adult competencies.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 350 Introduction to Radiologic Science and Healthcare  
2 cr. Undergraduate.  
Introduction to Radiologic Technology imaging principles and equipment. Basic concepts of patient care, emergency care, CPR, medical ethics, legal issues, and cultural diversity.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 351 Radiation Protection  
2 cr. Undergraduate.  
All aspects of radiation protection including radiation safety, detection, and measurement relevant to Radiologic Technology.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 352 Human Structure & Function I  
2 cr. Undergraduate.  
Structure and physiology of the human body as they relate to radiography of the respiratory, digestive and urinary systems, and skeletal anatomy.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 353 Principles of Imaging I  
3 cr. Undergraduate.  
Radiographic qualities and factors influencing those qualities. X-ray tube, beam restricting devices, exposure factors, grids and scatter radiation.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 354 Radiographic Procedures I  
3 cr. Undergraduate.  
Introduction to radiographic positioning of the chest, upper extremities, urinary and digestive systems. Pharmacology of contrast media.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 355 Radiography Clinical Education I  
3 cr. Undergraduate.  
Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 356 Radiation Biology  
2 cr. Undergraduate.  
Effects of radiation from the cellular level to the entire human body. Long and short term somatic effects and genetic effects.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 357 Human Structure & Function II  
2 cr. Undergraduate.  
Structure and physiology of the human body as they relate to radiography of the digestive and urinary systems and skeletal anatomy.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 362 Principles of Imaging II  
3 cr. Undergraduate.  
Radiographic qualities and the factors influencing those qualities. Systems and chemicals used in radiographic processing. Film and processor sensitometry.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 363 Radiographic Procedures II  
3 cr. Undergraduate.  
Introduction to radiographic positioning for lower extremities, spine, and digestive system. Students learn to identify anatomy on radiographs and evaluate them for acceptability.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

DMI 364 Radiography Clinical Education II  
3 cr. Undergraduate.  
Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/
DMI 370 Human Structure & Function III
1 cr. Undergraduate.
Anatomy and physiology of the human body as they relate to the
radiography of the skull, facial bone, and circulatory system.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 371 Radiographic Procedures III
2 cr. Undergraduate.
Basic concepts of advanced imaging, special procedures, and
supplementary imaging modalities.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 372 Radiographic Clinical Education III
4 cr. Undergraduate.
Clinical Education allows students to rotate through all aspects of the
radiologic science field. A total of 65 competencies must be achieved in
two years of clinical education.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 401 Seminar in Radiography II
2 cr. Undergraduate.
Evaluation of all aspects of the imaging system from processor to
generator.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 402 Introduction to MSK Sonography
1 cr. Undergraduate.
Study of anatomy (to include anatomic variants), physiology,
pathophysiology and the sonographic appearance of the musculoskeletal
system as evaluated by diagnostic medical sonography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 435 Adult Echocardiography - Advanced Pathology
3 cr. Undergraduate.
Cardiovascular pharmacology and the potential effects of cardiac
medications on echocardiographic images.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 436 Pediatric Echocardiography II
3 cr. Undergraduate.
Advanced instruction in various types of congenital heart disease and
pediatric echocardiography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 437 Stress Echocardiography
3 cr. Undergraduate.
Indications, utility, limitations and technical procedures related to
exercise stress echocardiography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 438 Clinical Education IV - Echocardiography
3 cr. Undergraduate.
Clinical practicum rotations including advanced adult and pediatric
imaging of the heart with focus on advanced pediatric competencies.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 439 Clinical Education V - Echocardiography
4 cr. Undergraduate.
Clinical practicum rotations including exercise and pharmacological
stress, echocardiograms and transesophageal echocardiograms.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 440 Clinical Education VI - Echocardiography
3 cr. Undergraduate.
Clinical practicum including advanced imaging in echocardiography
techniques.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 441 Special Procedures in Echocardiography
3 cr. Undergraduate.
Indications, utility, limitations and technical procedures related to
transesophageal echocardiography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 450 Vascular Sonography I
3 cr. Undergraduate.
Anatomy, physiology, pathology, and pathophysiology of the peripheral
vascular subset of the cardiovascular system as it relates to sonography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 451 Vascular Sonography II
3 cr. Undergraduate.
Anatomy, physiology, pathology, and pathophysiology of the
cerebrovascular subset of the cardiovascular system as it relates to
sonography.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
DMI 452 Sonography Clinical Education IV  
3 cr. Undergraduate.  
Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 453 Seminar in OB/GYN Sonography  
3 cr. Undergraduate.  
The role of ultrasound in assisting with treatment as it relates to women's reproductive health and prenatal care.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 454 Introduction to Fetal Echocardiography  
3 cr. Undergraduate.  
Echocardiographic examination of the fetal heart including normal anatomy and congenital heart disease.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 455 Vascular Sonography III  
3 cr. Undergraduate.  
Doppler principles, spectral display, hemodynamics of abdominal, transplant organ, and penile vascular techniques; vascular statistics.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Summer 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 457 Sonography Clinical Education V  
4 cr. Undergraduate.  
Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 460 Professional Development in Sonography - Seminar  
3 cr. Undergraduate.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 461 Sonography Clinical Education VI  
3 cr. Undergraduate.  
Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 463 Seminar in Education and Management in Medical Imaging  
3 cr. Undergraduate.  
Problem solving of management issues relating to diagnostic medical sonography and exploring educational strategies employed in ultrasound education.  
Prerequisites: junior standing in BioMedical Science program or consent of instructor.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 464 Introduction to Neurosonography  
3 cr. Undergraduate.  
Anatomy, physiology, pathology, pathophysicsiology and the sonographic appearance of the normal and abnormal fetal and neonatal brain.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 470 Radiographic Physics  
2 cr. Undergraduate.  
Atomic and subatomic theories, electrical theory, interaction of x-rays with matter, production of radiation, equipment maintenance, x-ray circuits, tubes, and cooling charts.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 471 Digital Imaging  
3 cr. Undergraduate.  
Radiographic qualities and factors influencing those qualities. Principles of fluoroscopy, AEC, tomography, and other accessory equipment.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 473 Imaging Procedures IV  
2 cr. Undergraduate.  
Skull positioning advanced skills, special procedures, and supplementary imaging modalities.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 474 Radiography Clinical Education IV  
3 cr. Undergraduate.  
Students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/
DMI 475 Seminar in Radiography III
2 cr. Undergraduate.
Current concepts in radiologic technology.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 477 Cross Sectional Anatomy
3 cr. Undergraduate.
Structure and physiology of the human body as it appears in cross section. Diagrams, CT, and MRI images are utilized.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 478 Radiologic Pathology
3 cr. Undergraduate.
Changes that occur in disease and injury and their applications to radiography.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 479 Radiography Clinical Education V
3 cr. Undergraduate.
Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 480 Seminar in Radiography IV
2 cr. Undergraduate.
Current concepts in radiologic technology.
Prerequisites: sr st in BioMed Sci prog or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 482 Radiography Clinical Internship I
6 cr. Undergraduate.
600 hours of clinical experience. The student will begin surgical and evening rotations.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 483 Radiography Clinical Internship II
3 cr. Undergraduate.
Rotations through the Emergency Department, diagnostic area outpatient and orthopedic clinics, CT, MRI, and interventional radiology.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 484 Radiography Clinical Internship IV
1 cr. Undergraduate.
70 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 485 Professional Development in Radiography
2 cr. Undergraduate.
Federal regulations and legislation as they relate to the health care profession and radiology. Preparation for the certification exam.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 486 Radiography Clinical Education VI
4 cr. Undergraduate.
Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 489 Radiography Clinical Internship III
4 cr. Undergraduate.
400 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Course Rules: Counts as repeat of BMS 590 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 496 Professional Growth and Career Advancement in Diagnostic Imaging Professions
3 cr. Undergraduate.
Exploration and discussion of volunteerism and leadership in professional associations, professional advocacy, emerging trends in certification, re-certification and career pathways related to career advancement.
Prerequisites: admis to BMS major; or cons instr.
Course Rules: Counts as repeat of BMS 590 w/ same topic.
Last Taught: Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

DMI 599 Independent Study
1-3 cr. Undergraduate.
Individualized experience which enables the student to study current topics of interest in Diagnostic Medical Imaging. Level of credit assigned based on time required for completion.
Prerequisites: consent of Program Director.
Course Rules: May be retaken to 15 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Digital Arts and Culture (DAC)

DAC 140 Games and Society
3 cr. Undergraduate.
Cultural and social contexts of play and games; institutions, technology, and games. 2 hrs lec, 1 hr dis.
Prerequisites: none.
Course Rules: ANTHRO 140 and DAC 140 are jointly offered count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
DAC 199 Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Digital Arts and Culture faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord.
Prerequisites: 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 289 Internship in Digital Arts and Culture, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Digital Arts and Culture in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 296 UROP Apprenticeship, Lower Division
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 408 Nonprofit Information Technology
3 cr. Undergraduate.
Provides experiential project-based learning opportunities to UWM students while working on a technology project for a local nonprofit organization.
Prerequisites: none.
Course Rules: ART 408, DAC 408, and INFOST 408 are jointly offered and count as repeats of one another. Repeatable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 489 Internship in Digital Arts and Culture, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Digital Arts and Culture in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 496 UROP Apprenticeship, Upper Division
1-3 cr. Undergraduate.
Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 661 Digital Engagement Seminar
3 cr. Undergraduate/Graduate.
Production of a digital portfolio demonstrating achievement of DAC program learning goals.
Prerequisites: declared DAC major; completion of 12 cr approved DAC courses.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 661G Digital Engagement Seminar
3 cr. Undergraduate/Graduate.
Production of a digital portfolio demonstrating achievement of DAC program learning goals.
Prerequisites: declared DAC major; completion of 12 cr approved DAC courses.
Current Offerings: https://catalog.uwm.edu/course-search/

DAC 699 Advanced Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Digital Arts and Culture faculty or staff member. Writ course proposal req’d prior to reg. For additional information, consult prog coord.
Prerequisites: jr st; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 100 Introductory Economics
3 cr. Undergraduate.
A one semester survey of current national and international economic problems. Useful as preparation for Econ 103 and 104. Not required of economics majors.
Prerequisites: none.
Course Rules: Not open for cr to students who have cr in Econ 103 & 104.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 103 Principles of Microeconomics
3 cr. Undergraduate.
Economic reasoning; price determination, specialization, and efficiency. Applications include international trade, antitrust, environmental protection, highway congestion.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 104 Principles of Macroeconomics
3 cr. Undergraduate.
Composition of national income, interrelationship of sectors; determination of national income and productivity; relationship between national income, inflation, money, interest rates; U.S. global economies interaction.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 110 Economics of Personal Finance
1 cr. Undergraduate.
Economics of personal financial management; development of successful financial skills; activity-based course with assignments emphasizing students' individual situations.
Prerequisites: none.
Course Rules: No cr for students who have cr in Econ 258 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 210 Economic Statistics
3 cr. Undergraduate.
Basic probability and statistics; numerical and graphical methods of describing data, elementary probability, random variables and probability distributions, hypothesis testing, simple linear regression.
Prerequisites: Math 105(P), or Math 108(P), or Math Placement Level 30 or higher.
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 231 Analysis of American Industries
3 cr. Undergraduate.
Performance of key U.S. industries (e.g. education, beer, cars, medicinal drugs, radio, television, sports, steel, food, music recording); their responses to changing national/international economic conditions.
Prerequisites: soph st; Econ 103(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 248 Economics of Discrimination
3 cr. Undergraduate.
Use of economic theory to examine the history, current status, and policies regarding various minority groups in the United States. Applications include education, housing, jobs.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 258 Selected Topics in Economics:
1-3 cr. Undergraduate.
Focus on special topics not normally discussed in detail in other existing courses.
Prerequisites: soph st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 289 Internship in Economics, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of economics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: 100-level course in Econ; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr granted for academic work based on 40 hrs in the internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Spring 2019, UWinteriM 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 301 Intermediate Microeconomics
3 cr. Undergraduate.
Contemporary theory of consumption, production, pricing, resource allocation, and distribution.
Prerequisites: Econ 103(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 302 Intermediate Macroeconomics
3 cr. Undergraduate.
Analysis of savings, production, investment and other aggregates in the national and international economy as related to the determination of national income, inflation, and unemployment.
Prerequisites: Econ 104(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 310 Research Methods for Economics
3 cr. Undergraduate/Graduate.
Statistical research methods, especially cross-section and time-series regression, applied to evaluation of empirical literature and a directed research project.
Prerequisites: jr st; Econ 210(P) or cons instr.
Course Rules: Not open for cr to students who have cr in Econ 513(531).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 310G Research Methods for Economics
3 cr. Undergraduate/Graduate.
Statistical research methods, especially cross-section and time-series regression, applied to evaluation of empirical literature and a directed research project.
Prerequisites: jr st; Econ 210(P) or cons instr.
Course Rules: Not open for cr to students who have cr in Econ 513(531).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 311 Economic Forecasting Methods
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Econ 210(P); Econ 310(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 312 Money and Banking
3 cr. Undergraduate.
Stocks, bonds, derivatives, foreign exchange. Analysis of commercial banks, investment banks, brokerages, etc. Domestic and international monetary theory and policy. Risk insurances, regulations, deregulation.
Prerequisites: Econ 104(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 313 Environmental Economics
3 cr. Undergraduate.
Evaluating public policy of environmental and natural resources. Regulation of pollution, endangered species, natural resources, and other case studies.
Prerequisites: Econ 103(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 314 Economics and Law
3 cr. Undergraduate.
Prerequisites: Econ 103(P).
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 411G Economic Forecasting Methods
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Econ 210(P); Econ 310(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 413G Statistics for Economists
3 cr. Undergraduate/Graduate.
Elements of probability; joint marginal and conditional distributions; measures of central tendency and dispersion, calculus of expectations; central limit theorem. Estimation and testing of economic relations.
Prerequisites: jr st; Econ 210(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 415 Economics of Employment and Labor Relations
3 cr. Undergraduate/Graduate.
Analysis of wage setting, labor markets, human capital and collective bargaining. Study of labor standards, regulation and the role of unions and government.
Prerequisites: jr st; Econ 103(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 415G Economics of Employment and Labor Relations
3 cr. Undergraduate/Graduate.
Analysis of wage setting, labor markets, human capital and collective bargaining. Study of labor standards, regulation and the role of unions and government.
Prerequisites: jr st; Econ 103(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 426 Public Economics
3 cr. Undergraduate/Graduate.
Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributional programs, and related topics.
Prerequisites: jr st; Econ 104(P) & 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 426G Public Economics
3 cr. Undergraduate/Graduate.
Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributional programs, and related topics.
Prerequisites: jr st; Econ 104(P) & 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 432 Industrial Organization
3 cr. Undergraduate/Graduate.
Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.
Prerequisites: jr st; Econ 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 432G Industrial Organization
3 cr. Undergraduate/Graduate.
Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.
Prerequisites: jr st; Econ 301(P).
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 447 Labor Economics
3 cr. Undergraduate/Graduate.
The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.
Prerequisites: jr st; Econ 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 447G Labor Economics
3 cr. Undergraduate/Graduate.
The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.
Prerequisites: jr st; Econ 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 448 Economics of Human Resources
3 cr. Undergraduate/Graduate.
The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.
Prerequisites: jr st; Econ 103(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 448G Economics of Human Resources
3 cr. Undergraduate/Graduate.
The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.
Prerequisites: jr st; Econ 103(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 450 Health Economics
3 cr. Undergraduate/Graduate.
Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy.
**Prerequisites:** jr st, Econ 103(P).
**Last Taught:** Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 450G Health Economics
3 cr. Undergraduate/Graduate.
Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy.
**Prerequisites:** jr st, Econ 103(P).
**Last Taught:** Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 454 International Trade
3 cr. Undergraduate/Graduate.
**Prerequisites:** jr st; Econ 301(P).
**Last Taught:** Fall 2018, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 454G International Trade
3 cr. Undergraduate/Graduate.
**Prerequisites:** jr st; Econ 301(P).
**Last Taught:** Fall 2018, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 455 International Finance
3 cr. Undergraduate/Graduate.
International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.
**Prerequisites:** jr st; Econ 302(P).
**Last Taught:** Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 455G International Finance
3 cr. Undergraduate/Graduate.
International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.
**Prerequisites:** jr st; Econ 302(P).
**Last Taught:** Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 458 Selected Topics in Economics:
3 cr. Undergraduate/Graduate.
Variable content course designed to focus on special topics not normally discussed in detail in other existing courses.
**Prerequisites:** jr st & cons instr.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Fall 2016, Fall 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 458G Selected Topics in Economics:
3 cr. Undergraduate/Graduate.
Variable content course designed to focus on special topics not normally discussed in detail in other existing courses.
**Prerequisites:** jr st & cons instr.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Spring 2016, Fall 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 459 Internship in Economics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of economics in a business, organizational, educational, political, or other appropriate setting.
**Prerequisites:** jr st; 300-level or above course in Econ; 2.25 gpa; cons supervising faculty member.
**Course Rules:** One cr granted for academic work based on 40 hrs in the Internship. May be retaken to 6 cr max.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; acceptance in Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; acceptance in Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
**Prerequisites:** jr st; add’l prereqs may be assigned to specific topic.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Fall 2002, Fall 1993.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

ECON 506 Mathematical Economics I
3 cr. Undergraduate/Graduate.
Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers.
**Prerequisites:** jr st, Econ 301(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).
**Last Taught:** Fall 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
ECON 506G Mathematical Economics I
3 cr. Undergraduate/Graduate.
Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers.
Prerequisites: jr st, Econ 301(P), Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 513 Introduction to Econometrics
3 cr. Undergraduate/Graduate.
Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations.
Prerequisites: jr st, Econ 413(P).
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 513G Introduction to Econometrics
3 cr. Undergraduate/Graduate.
Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations.
Prerequisites: jr st, Econ 413(P).
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 525 The Economics of Water
3 cr. Undergraduate/Graduate.
Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources.
Prerequisites: jr st, Econ 103(P); Math 231(P); a statistics course; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 525G The Economics of Water
3 cr. Undergraduate/Graduate.
Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources.
Prerequisites: jr st, Econ 103(P); Math 231(P); a statistics course; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 606 Mathematical Economics II
3 cr. Undergraduate/Graduate.
Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution. Essential preparation for graduate work.
Prerequisites: jr st, Econ 506(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 606G Mathematical Economics II
3 cr. Undergraduate/Graduate.
Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution. Essential preparation for graduate work.
Prerequisites: jr st, Econ 506(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 699 Independent Work
1-3 cr. Undergraduate.
Prerequisites: jr st, 2.0 GPA; consent of instructor, Department Chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 701 Economic Theory: Macroeconomics
4 cr. Graduate.
Conventional theory of the behavior of firms, consumers, and markets; partial and general equilibria.
Prerequisites: grad st; Econ 301(P), Econ 506(R).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 702 Economic Theory: Microeconomics
4 cr. Graduate.
Aggregative economic analysis, problems of aggregation and significant aggregates; national income, flow-of-funds, and input-output.
Prerequisites: grad st; Econ 302(P), Econ 506(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 703 Econometrics
4 cr. Graduate.
Regression theory, generalized least squares, heteroscedasticity, autocorrelation, multi-collinearity, distributed lags, and discrete variable models, system of equations.
Prerequisites: grad st
Course Rules: No cr for students who have grad cr in Econ 513.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 706 Mathematical Economics
3 cr. Graduate.
Mathematical analysis of modern economic problems; dynamic input-output system, stability analysis, general equilibrium analysis, optimizing theory including linear and non-linear programming, activity analysis and turnpike theory, and mathematical growth models.
Prerequisites: grad st; Econ 506(P) & 606(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 708 Industrial Organization I
3 cr. Graduate.
Exploration of the relationship between industrial structure and market performance. Topics covered include r&d, advertising and government regulations. Prereq: grad st; Econ 301(P), 302(P) & 506(P), or cons instr.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 709 Industrial Organization II
3 cr. Graduate.
Evaluation of the economic impact of the anti-trust laws. Topics covered include horizontal restraint, vertical restraint, patent, and mergers.
Prerequisites: grad st; Econ 301(P), 302(P), & 413(P).
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 710 Applied Econometrics
3 cr. Graduate.
Specification, estimation and testing of economic theory. Application of
distributed lags, autoregressive models, system of equations, discrete
choice models and cointegration principles.
Prerequisites: grad st; Econ703(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 712 Urban Economic Theory
3 cr. Graduate.
Trends in U.S. urbanization and suburbanization. Studies of urban
household and firm behavior. General equilibrium analytical and
simulation models of urban structure.
Prerequisites: grad st; Econ 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 713 Regional Economic Theory
3 cr. Graduate.
Location theory and land-use patterns, regional social accounts and
input-output models, shift-share analysis, regional econometric model,
and growth policies.
Prerequisites: grad st; Econ 301(P) or cons instr; Econ 413(431)(R).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 731 Money, Income, and Prices
3 cr. Graduate.
Analysis of the demand for money by monetary theorists. Integration of
theories into general equilibrium macro-models.
Prerequisites: grad st; Econ 301(P) or cons instr; Econ 413(431)(R).
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 734 Foundation of Econometric Methods
3 cr. Graduate.
Statistical and econometric methods for econometrics research.
Asymptotic theory; maximum likelihood, generalized method of moments
estimation; classical linear regression model; non-linear and multivariate
regression models.
Prerequisites: grad st; Econ 413(431)(P) & 506(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 735 Econometric Methods I
3 cr. Graduate.
Review of statistical inference, asymptotic distribution theory,
multivariate regression model and its extension, and use of prior
information; estimation and testing of econometric models.
Prerequisites: grad st; Econ 734(635)(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 749 Urban Public Finance
3 cr. Graduate.
Analysis of state and local government expenditures and revenues;
demand for urban services, costs of supplying them, and methods of
financing them.
Prerequisites: grad st; Econ 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 751 Labor Economics I
3 cr. Graduate.
Human capital investments: determinants of earnings (education,
experience, incentives, discrimination, unions, compensating
differentials); public sector labor markets; issues of retirement and aging.
Prerequisites: grad st; Econ 701(C).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 752 Labor Economics II
3 cr. Graduate.
Income distribution and inequality; migration and immigration; fertility,
family structure, human capital and labor supply, unemployment and job
search; selection bias; specialization and work organization.
Prerequisites: grad st; Econ 701(C).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 753 Collective Bargaining
3 cr. Graduate.
Economic and behavioral theories of collective bargaining, bargaining
structure, impasses and truces, union effects, management goals, terms
of the agreement and national policy.
Prerequisites: grad st; Ind Rel 701(R).
Course Rules: May not be substituted for Econ 751 or 752 in meeting the
concentration req of the Econ MA Non-thesis option or in preparing for Ph
D prelims.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 755 Comparative Labor Markets and Employment Relations
3 cr. Graduate.
Labor market institutions, practices and performance. The U.S. is
compared with western europe, japan and elsewhere.
Prerequisites: grad st; Econ 210(P) & 415(451)(P) or cons instr.
Course Rules: May not substitute for Econ 751 or 752.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 774 Economic Development - Theory
3 cr. Graduate.
Theories relating to production, distribution, and capital formation in less-
developed nations.
Prerequisites: grad st; Econ 301(P) & 302(P).
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 775 Economic Development - Policy
3 cr. Graduate.
Planning, case studies, and empirical analysis of less-developed nations.
Prerequisites: grad st; Econ 301(P) & 302(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 790 Research Seminar for M.A. Students
3 cr. Graduate.
Basic research methods and guidance in developing a research proposal
and writing a formal research paper.
Prerequisites: grad st
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 801 Advanced Microeconomic Theory I
3 cr. Graduate.
Decision-making under risk and over time, general equilibrium and welfare, market failure, and applications, including demand systems, household production, interpersonal economics, and hedonic pricing.
Prerequisites: grad st; Econ 701(P) & 506(P). Econ 606(R).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 802 Advanced Macroeconomic Theory I
3 cr. Graduate.
Money, credit, and governmental operations in aggregative analysis; critical study of some aggregative and analytical systems.
Prerequisites: grad st; Econ 702(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 803 Advanced Microeconomic Theory II
3 cr. Graduate.
Theory of the firm, imperfect competition, game theory, asymmetric information, transaction costs and applications including matching/search, factor markets, contract theory, mechanism design and specialization.
Prerequisites: grad st; Econ 506 (P) & 701(P); Econ 606 (R).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 804 Advanced Macroeconomic Theory II
3 cr. Graduate.
New growth theories, new Keynesian theories, role of information in macro models, and financial markets and macro economy.
Prerequisites: grad st; Econ 802(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 806 Mathematical Economics
3 cr. Graduate.
Applications of dynamic optimization technique to modern economic problems; optimal economic growth, optimal pricing, optimal stabilization policies, etc.
Prerequisites: Econ 706(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 831 Monetary Theory and Policy
3 cr. Graduate.
Study of money, credit, and liquidity as related to income, employment, and prices. Study of goals and effectiveness of monetary and banking policy.
Prerequisites: grad st; Econ 701(P). Econ 702(C) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 835 Econometric Methods II
3 cr. Graduate.
Identification problem, econometric model building, and simultaneous equation techniques such as two- and three-stage least squares and full- and limited-information maximum likelihood methods.
Prerequisites: grad st; Econ 735(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 871 The Pure Theory of International Trade
3 cr. Graduate.
Examines for both static and growing economies the impact of trade upon relative prices of goods and factors of production.
Prerequisites: grad st; Econ 701(P).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 872 Money in the International Economy
3 cr. Graduate.
Examines the theory and measurement of the balance of payments, appropriate policies for internal and external balance, the problems of making international payments and the issue of exchange rate flexibility.
Prerequisites: Econ 702(P) & 455(576)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 905 Seminar: Banking and Monetary Theory:
3 cr. Graduate.
Consideration of the relationship between monetary policy and short-run fluctuations and long-run economic trends.
Prerequisites: grad st; Econ 831(P) or cons instr.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2013, Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 915 Seminar: Econometric Methods:
3 cr. Graduate.
Selected advanced topics in econometric methods and their application to current economic problems.
Prerequisites: grad st; Econ 835(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 931 Seminar: Regulated Industries:
3 cr. Graduate.
Research in the field of public utilities and other regulated industries, with emphasis on changing the emerging transportation problems.
Prerequisites: grad st; Econ 701(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 947 Seminar: Public Finance:
3 cr. Graduate.
Advanced study of public finance problems and literature. Research.
Prerequisites: grad st; Econ 701(P) & 702(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ECON 974 Seminar: Economic Development and Growth:
3 cr. Graduate.
Analysis of advanced topics relating to the process of economic development and theory of growth.
Prerequisites: grad st; Econ 774(P) & 775(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 990 Graduate Thesis
1-3 cr. Graduate.
Reserved for research in connection with doctoral thesis.
Prerequisites: grad st; cons major prof.
Course Rules: Retakable as necessary to fulfill thesis requirements.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 991 Workshop in Economic Research:
2-3 cr. Graduate.
Individual research and group discussion of selected problems in economic theory and its applications.
Prerequisites: grad st & cons instr.
Course Rules: Retakable with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ECON 999 Independent Work
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

EDUC 882 Multicultural Studies Practicum
3 cr. Graduate.
Intensive fieldwork/seminar with emphases on intercultural experience, integration of knowledge bases, and collaboration in community and university settings.
Prerequisites: Prerq: admis to Urban Ed PhD prog; Educ 881(P).
Last Taught: Summer 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

EDUC 900 Doctoral Seminar in Urban Education:
2-3 cr. Graduate.
Topics will vary. Overview of areas of study focuses upon problems in urban education. Emphasis placed upon research and potential research and potential search projects.
Prerequisites: admis to phd in urban educ prog.
Course Rules: May be repeated to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

EDUC 901 Advanced Seminar in Urban Education
3 cr. Graduate.
A synthesis of research-based urban education issues. Focuses on development of a literature review leading to a possible dissertation topic.
Prerequisites: grad st; admis to School of Educ doctoral prog, Educ 701(P) and one of the following: Ad Ldsp 801, CurrIns 801, Ed Pol 801, Ed Psy 801, ExcEduc 801, L&I Sci 845.
Last Taught: Spring 2019, Spring 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

EDUC 701 Urban Educational Issues
3 cr. Graduate.
Advanced study of urban educational issues in contemporary American cultural context.
Prerequisites: grad st; admis to School of Educ doctoral prog.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

EDUC 801 Urban Education: Seminar in Multicultural Studies
3 cr. Graduate.
An overview of theory and research on multiculturalism with emphasis on applications of theory and research to practice in a variety of educational settings.
Prerequisites: admis to phd prog urban educ; Educ 701(P).
Current Offerings: https://catalog.uwm.edu/course-search/

EDUC 881 Action Research
3 cr. Graduate.
Perspectives on action research, its forms in various contexts, and how it contributes to knowledge and improved practice.
Prerequisites: admis to Urban Ed PhD prog; Educ 701(C) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 112 Introduction to Community Education
3 cr. Undergraduate.
This course will examine the history of community education and discuss
the role of education within a community setting.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 113 The Milwaukee Community
3 cr. Undergraduate.
An overview of communities and neighborhood groups in Milwaukee.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 114 Community Problems
3 cr. Undergraduate.
This course will examine how social problems impact upon communities
and neighborhoods, how they are defined, and how these definitions
influence social policies and programs.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 179 Special Topics in Community Education:
1-3 cr. Undergraduate.
Prerequisites: none.
Course Rules: May be retaken w/content chg to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 200 Community Education III
1-15 cr. Undergraduate.
Third semester lower division curriculum: emphasizes acquisition of
skills and understandings leading to basic competence as set forth in
student learning agreements. Includes fieldwork practice.
Prerequisites: Ed Pol 101 or cons instr.
Course Rules: Variable cr based on skills & understanding to be acquired
& nature of practice.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 201 Community Education IV
1-15 cr. Undergraduate.
Fourth semester of lower division curriculum: emphasizes final
development of skills and understandings leading to basic competence
as set forth in student learning agreements and continuation of fieldwork
practice. Includes final evaluation of basic competence.
Prerequisites: Ed Pol 200 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 202 Community Service Volunteer
1-6 cr. Undergraduate.
Prerequisites: none.
Course Rules: Cr/no cr only. May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 203 Communities and Neighborhoods in America
3 cr. Undergraduate.
Students will construct a survey of their neighborhoods, examine
theories of community structure, and analyze neighborhood improvement
movements. Fulfills Ed Pol 113 req for CED.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 212 Educational Issues in Spanish Speaking Communities
3 cr. Undergraduate.
This course presents an overview of the educational issues in the
Spanish-speaking communities in the United States and how these
issues affect the total society.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 279 Current Topics in Educational Policy and Community Studies:
1-3 cr. Undergraduate.
Variable content course. Specific topic announced in the Schedule of
Classes.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 299 Independent Reading
1-3 cr. Undergraduate.
For the benefit of undergraduate students unable to secure needed
content in regular courses.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 302 Approaches to Relationships in the Child Care Setting
3 cr. Undergraduate.
Communication and conflict resolution in relationships in the child care
setting, emphasizing parent-child, teacher-child, teacher-teacher and
parent-teacher relationships.
Prerequisites: consent of advisor if admitted to the Community Education
program; junior standing or consent of instructor for all other individuals.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 315 Group Process and Civic Engagement
1-3 cr. Undergraduate.
Explore group process and identity and relate these issues to future civic engagement for emerging student leaders.
Prerequisites: none.
Course Rules: Not open to students with cr in Ed Pol 279 Emerging Leaders topics. May be retaken to 4 cr max.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 375 Cultural Foundations of Education
3 cr. Undergraduate.
Critical examination of cultural influences in American society as they affect education.
Prerequisites: soph st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 377 Conceptual and Development Formulation for Prior Educational Experience
3-6 cr. Undergraduate.
Prerequisites: C/NC only. May be retaken to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 379 Current Topics in Community Education:
1-6 cr. Undergraduate.
The specific topics and prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Summer 2010, Fall 2009, Fall 1999, Fall 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 381 Introduction to Child Care:
3 cr. Undergraduate.
An introductory course for students who are new to the field of child care. Enables students to begin working effectively with young children.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 383 Child Care Programming:
1-3 cr. Undergraduate.
Study of child care programming as it relates to the child's social milieu: family, community, and child care center. Comparative examination of child care programs and their supporting theories.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 411 Conflict and Change in Community-Based Organizations
3 cr. Undergraduate.
Examines the role of bargaining and conflict in community-based educational change, various approaches to bargaining and conflict, and their appropriateness in various settings.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 416 Analysis of Child Care Environments
3-6 cr. Undergraduate.
Introduces students to a variety of special designs for child care settings and to an understanding of evaluation process for environmental changes.
Prerequisites: consent of advisor if admitted to the Community Education program; junior standing or consent of instructor for all other individuals.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 442 Intermediate Community Education Practice I
3-9 cr. Undergraduate.
Supervised fieldwork in Area of Specialty (upper divisional majors in C.E.). Emphasizes acquisition of new skills understandings and their application to practice.
Prerequisites: Ed Pol 508(P) & cons instr.
Course Rules: May be retaken to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 460 The Chicano Experience
3 cr. Undergraduate.
This course surveys important issues shaping the Chicano experience in U.S. society by focusing on immigration, the Barrio, Repatriation, Zoot Suit, Chicano-police riots, etc.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2014, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2014, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 499 Independent Reading
1-3 cr. Undergraduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 500 Sociology and Policy of Urban Communities and Schools
3 cr. Undergraduate/Graduate.
Selected contemporary social issues analyzed for their bearing on urban communities and schools.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 500G Sociology and Policy of Urban Communities and Schools
3 cr. Undergraduate/Graduate.
Selected contemporary social issues analyzed for their bearing on urban communities and schools.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 501G Community Change and Engagement
3 cr. Graduate.
Concepts and strategies for community change and engagement in low-income urban settings.
Prerequisites: grad st or cons instr.
Course Rules: Not open to students with credit for ED POL 111.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 506 Research Techniques for Community Organizers and Community Educators
3 cr. Undergraduate.
Introduction to basic research techniques and the specific skills needed for the community organizer and/or educator.
Prerequisites: jr st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 507 Action Research on Milwaukee Institutions
3 cr. Undergraduate/Graduate.
Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 507G Action Research on Milwaukee Institutions
3 cr. Undergraduate/Graduate.
Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 508 Advanced Problems in Community Change and Engagement
3 cr. Undergraduate/Graduate.
Advanced training in community engagement with reflective paper.
Prerequisites: Ed Pol 111(P) & cons instr.
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 508G Advanced Problems in Community Change and Engagement
3 cr. Undergraduate/Graduate.
Advanced training in community engagement with reflective paper.
Prerequisites: Ed Pol 111(P) & cons instr.
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 509 Fieldwork/Practicum in Education and the Community
1-3 cr. Undergraduate/Graduate.
Advanced fieldwork/practicum for students to acquire skills for educational and community practice; fieldwork hours correspond to credit value; 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs.
Prerequisites: Comm Ed majors only.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 509G Fieldwork/Practicum in Education and the Community
1-3 cr. Undergraduate/Graduate.
Advanced fieldwork/practicum for students to acquire skills for educational and community practice; fieldwork hours correspond to credit value; 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs.
Prerequisites: Comm Ed majors only.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 510 Human Relations for Community Organizations & Community Engagement
3 cr. Undergraduate/Graduate.
Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated.
Prerequisites: jr st.
General Education Requirements: SS
Last Taught: Fall 1996, Spring 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 510G Human Relations for Community Organizations & Community Engagement
3 cr. Undergraduate/Graduate.
Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated.
Prerequisites: jr st.
General Education Requirements: SS
Last Taught: Fall 1996, Spring 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 519 Peer Programs and Mediation: Youth Mentoring and Supporting Youth
3 cr. Undergraduate/Graduate.
Theory and practice of peer programs and how they are developed and sustained.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 579 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 519G Peer Programs and Mediation: Youth Mentoring and Supporting Youth
3 cr. Undergraduate/Graduate.
Theory and practice of peer programs and how they are developed and sustained.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 579 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 520 Peace Education
3 cr. Undergraduate/Graduate.
Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution.
Prerequisites: jr st or cons instr. Minimum of 9 hrs Soc Sci division course work.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 520G Peace Education
3 cr. Undergraduate/Graduate.
Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution.
Prerequisites: jr st or cons instr. Minimum of 9 hrs Soc Sci division course work.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 521 Nonviolence in Education
3 cr. Undergraduate/Graduate.
An overview of different theories of nonviolence and an examination of their applications in educational setting.
Prerequisites: jr st; Ed Pol 520(R); Psych 201(R) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 521G Nonviolence in Education
3 cr. Undergraduate/Graduate.
An overview of different theories of nonviolence and an examination of their applications in educational setting.
Prerequisites: jr st; Ed Pol 520(R); Psych 201(R) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 522 Abusive Relationships: Community Problems, Community Solutions
3 cr. Undergraduate/Graduate.
The origins of relationship abuse, the legal aspects of domestic violence, and the healing process for people hurting in relationships.
Prerequisites: jr st; Ed Pol 520(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 522G Abusive Relationships: Community Problems, Community Solutions
3 cr. Undergraduate/Graduate.
The origins of relationship abuse, the legal aspects of domestic violence, and the healing process for people hurting in relationships.
Prerequisites: jr st; Ed Pol 520(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 530 Urban Education: Foundations
3 cr. Undergraduate/Graduate.
Application of basic social science concepts to study of education in the urban setting.
Prerequisites: Prereq; jr st.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 530G Urban Education: Foundations
3 cr. Undergraduate/Graduate.
Application of basic social science concepts to study of education in the urban setting.
Prerequisites: Prereq; jr st.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 531 Alternative Schools
3 cr. Undergraduate/Graduate.
Examine the alternative schools movement.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 330.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 531G Alternative Schools
3 cr. Undergraduate/Graduate.
Examine the alternative schools movement.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 330.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 532 Male Identity: Education and Development
3 cr. Undergraduate/Graduate.
Contribution of schools in forming male identity. Changing expectations of men in work, the family and society.
Prerequisites: jr st.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 532G Male Identity: Education and Development
3 cr. Undergraduate/Graduate.
Contribution of schools in forming male identity. Changing expectations of men in work, the family and society.
Prerequisites: jr st.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 533 Educating Black Males-Theories, Methods and Strategies
3 cr. Undergraduate/Graduate.
This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade.
Prerequisites: jr st; Ed Pol 112 or 375 or equiv or teacher certification.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 533G Educating Black Males-Theories, Methods and Strategies
3 cr. Undergraduate/Graduate.
This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade.
Prerequisites: jr st; Ed Pol 112 or 375 or equiv or teacher certification.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 534 Students Placed At Risk (Causes)
3 cr. Undergraduate/Graduate.
Helps teachers to identify and understand the personal, social, cultural
and community contexts which contribute to risk discourse and the
labeling of public school students.
Prerequisites: junior standing.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 534G Students Placed At Risk (Causes)
3 cr. Undergraduate/Graduate.
Helps teachers to identify and understand the personal, social, cultural
and community contexts which contribute to risk discourse and the
labeling of public school students.
Prerequisites: junior standing.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 535 Educating Students Placed At Risk
3 cr. Undergraduate/Graduate.
Development of skills and techniques to enable teachers to be
instructionally effective with students placed at risk.
Prerequisites: junior standing.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 535G Educating Students Placed At Risk
3 cr. Undergraduate/Graduate.
Development of skills and techniques to enable teachers to be
instructionally effective with students placed at risk.
Prerequisites: junior standing.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 541 Wisconsin Juvenile Justice System and the Law for School Personnel
1 cr. Undergraduate/Graduate.
Provides students and school personnel with knowledge of Wisconsin juvenile justice system, and legal responsibilities of all school personnel, emphasizing current code.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 541G Wisconsin Juvenile Justice System and the Law for School Personnel
1 cr. Undergraduate/Graduate.
Provides students and school personnel with knowledge of Wisconsin juvenile justice system, and legal responsibilities of all school personnel, emphasizing current code.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 550 Comparative Education
3 cr. Undergraduate/Graduate.
Survey of foreign school systems with attention to cultural setting and major purposes.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 550G Comparative Education
3 cr. Undergraduate/Graduate.
Survey of foreign school systems with attention to cultural setting and major purposes.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 560 Education and Hispanics
3 cr. Undergraduate/Graduate.
Examination of the educational experiences of Hispanics in schools in the USA.
Prerequisites: jr st.
General Education Requirements: CD, SS
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 560G Education and Hispanics
3 cr. Undergraduate/Graduate.
Examination of the educational experiences of Hispanics in schools in the USA.
Prerequisites: jr st.
General Education Requirements: CD, SS
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 561 Education Issues in American Indian Communities
3 cr. Undergraduate/Graduate.
Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.
Prerequisites: jr st or cons instr.
General Education Requirements: CD
Last Taught: Spring 2010, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 561G Education Issues in American Indian Communities
3 cr. Undergraduate/Graduate.
Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.
Prerequisites: jr st or cons instr.
General Education Requirements: CD
Last Taught: Spring 2010, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 579 Current Topics in Cultural Foundations of Education:
1-6 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr, including cr earned under Ed Pol 779.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 579G Current Topics in Cultural Foundations of Education
1-6 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr, including cr earned under Ed Pol 779.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 580 An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 580G An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 581 Youth Work Practice
3 cr. Undergraduate/Graduate.
Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.
Prerequisites: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.
Course Rules: Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 581G Youth Work Practice
3 cr. Undergraduate/Graduate.
Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.
Prerequisites: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.
Course Rules: Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 582 Operations Management in Early Childhood Programs
3 cr. Undergraduate/Graduate.
An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.
Prerequisites: junior standing; AD LDSP 581(P); or consent of instructor.
Course Rules: AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 582G Operations Management in Early Childhood Programs
3 cr. Undergraduate/Graduate.
An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.
Prerequisites: junior standing; AD LDSP 581(P); or consent of instructor.
Course Rules: AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 584 Early Childhood Programs and the External Environment
3 cr. Undergraduate/Graduate.
Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.
Prerequisites: junior standing and AD LDSP 581(P); or consent of instructor.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 584G Early Childhood Programs and the External Environment
3 cr. Undergraduate/Graduate.
Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.
Prerequisites: junior standing and AD LDSP 581(P); or consent of instructor.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 585 Supervised Practicum in Child and Youth Care
2-4 cr. Undergraduate/Graduate.
Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.
Prerequisites: jr st; ED POL 580/EXCEDUC 580/SOC WRK 580(P), or grad st; cons instr.
Course Rules: ED POL 585/EXCEDUC 585 are jointly offered & count as repeats of each other.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 587 Public Schools, Church-State Issues: Educational Foundations
3 cr. Undergraduate/Graduate.
Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 597 Public Schools, Church-State Issues: Educational Foundations
3 cr. Undergraduate/Graduate.
Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 601 Foundations of Community-Based Organizations
3 cr. Undergraduate/Graduate.
Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 601G Foundations of Community-Based Organizations
3 cr. Undergraduate/Graduate.
Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 602 Proposal Writing and Fundraising Skills for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Course prepares students to research, identify and apply for government funded community programs.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 602G Proposal Writing and Fundraising Skills for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Course prepares students to research, identify and apply for government funded community programs.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 603 Community Policy Analysis
3 cr. Undergraduate/Graduate.
Overview of policy analysis theory and approaches and techniques used to make sound policy decisions.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 603G Community Policy Analysis
3 cr. Undergraduate/Graduate.
Overview of policy analysis theory and approaches and techniques used to make sound policy decisions.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 604 Marketing for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Basic theories of marketing and the application of marketing strategies used by community-based organizations.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 604G Marketing for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Basic theories of marketing and the application of marketing strategies used by community-based organizations.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 605 Community-Based Organization Funding
3 cr. Undergraduate/Graduate.
Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 605G Community-Based Organization Funding
3 cr. Undergraduate/Graduate.
Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 606 Quality Controls and Accountability for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Introduction to quality controls and accountability tools that community-based organizations need in an era of increased accountability.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 606G Quality Controls and Accountability for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Introduction to quality controls and accountability tools that community-based organizations need in an era of increased accountability.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 607 Service Learning and Community Engagement
3 cr. Undergraduate/Graduate.
Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice.
Prerequisites: jr st or cons instr.
Course Rules: Part of concentration in Community Engagement and Partnerships.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 607G Service Learning and Community Engagement
3 cr. Undergraduate/Graduate.
Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice.
Prerequisites: jr st or cons instr.
Course Rules: Part of concentration in Community Engagement and Partnerships.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 608 Social Media and Technology for Community Engagement
3 cr. Undergraduate/Graduate.
Introduces a variety of current visions of social media and approaches to community informatics.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 608G Social Media and Technology for Community Engagement
3 cr. Undergraduate/Graduate.
Introduces a variety of current visions of social media and approaches to community informatics.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 609 Community Partnerships
3 cr. Undergraduate/Graduate.
Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 609G Community Partnerships
3 cr. Undergraduate/Graduate.
Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 610 Reproduction of Minority Communities
3 cr. Undergraduate/Graduate.
Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.
Prerequisites: jr st; any Sociol 100-level course.
Course Rules: Jointly offered w/ & counts as repeat of Sociol 610.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 610G Reproduction of Minority Communities
3 cr. Undergraduate/Graduate.
Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.
Prerequisites: jr st; any Sociol 100-level course.
Course Rules: Jointly offered w/ & counts as repeat of Sociol 610.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 611 Community Policies and Urban Minority Youths
3 cr. Undergraduate/Graduate.
Focus on how community policies impact urban minority youths.
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 611G Community Policies and Urban Minority Youths
3 cr. Undergraduate/Graduate.
Focus on how community policies impact urban minority youths.
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 612 Community Participation and Power
3 cr. Undergraduate/Graduate.
Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 612G Community Participation and Power
3 cr. Undergraduate/Graduate.
Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 613 Context and Foundations of Educational Policy
3 cr. Undergraduate/Graduate.
Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns.
Prerequisites: jr st.
Last Taught: Fall 2012, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 613G Context and Foundations of Educational Policy
3 cr. Undergraduate/Graduate.
Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns.
Prerequisites: jr st.
Last Taught: Fall 2012, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 615 Service Delivery Policies & Systems for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Overview of key policies used by community-based organizations in developing service delivery systems.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 615G Service Delivery Policies & Systems for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Overview of key policies used by community-based organizations in developing service delivery systems.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 620 History of the Education of African Americans
3 cr. Undergraduate/Graduate.
Study of the history, biographies, trends, cultural influences, and
movements in the education of African Americans: Africa to slavery to
the present. Comparison with 'white education.'
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 620G History of the Education of African Americans
3 cr. Undergraduate/Graduate.
Study of the history, biographies, trends, cultural influences, and
movements in the education of African Americans: Africa to slavery to
the present. Comparison with 'white education.'
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 621 History of Native Education and Policy Development
3 cr. Undergraduate/Graduate.
Historic policy development affecting the education of American Indians
including the development of schools and the relationship of education to
federal Indian policy.
Prerequisites: jr st or cons instr.
General Education Requirements: CD
Last Taught: Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 621G History of Native Education and Policy Development
3 cr. Undergraduate/Graduate.
Historic policy development affecting the education of American Indians
including the development of schools and the relationship of education to
federal Indian policy.
Prerequisites: jr st or cons instr.
General Education Requirements: CD
Last Taught: Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 624 Gender and Education
3 cr. Undergraduate/Graduate.
Overview of the major discussions and debates in the area of gender,
ocusing on the intersections of gender, race, class, ethnicity, and
sexuality.
Prerequisites: jr st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 624G Gender and Education
3 cr. Undergraduate/Graduate.
Overview of the major discussions and debates in the area of gender,
ocusing on the intersections of gender, race, class, ethnicity, and
sexuality.
Prerequisites: jr st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 625 Race Relations in Education
3 cr. Undergraduate/Graduate.
Study and analysis of historical and theoretical bases of racism/race
relations in america and their influences on contemporary educational
policies and practices.
Prerequisites: jr st.
General Education Requirements: CD
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 625G Race Relations in Education
3 cr. Undergraduate/Graduate.
Study and analysis of historical and theoretical bases of racism/race
relations in america and their influences on contemporary educational
policies and practices.
Prerequisites: jr st.
General Education Requirements: CD
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 626 Antiracist Education
3 cr. Undergraduate/Graduate.
Comparative perspectives on racism and antiracism in society and
education.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 579 with same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 626G Antiracist Education
3 cr. Undergraduate/Graduate.
Comparative perspectives on racism and antiracism in society and
education.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 579 with same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 630 Race, Ethnicity, and Public Policy in Urban America
3 cr. Undergraduate/Graduate.
Examination of the relationship between race, ethnicity, and public
policy with emphasis on issues (housing, crime, welfare reform, poverty,
employment, discrimination, etc.) impacting urban communities.
Prerequisites: junior standing or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 630G Race, Ethnicity, and Public Policy in Urban America
3 cr. Undergraduate/Graduate.
Examination of the relationship between race, ethnicity, and public
policy with emphasis on issues (housing, crime, welfare reform, poverty,
employment, discrimination, etc.) impacting urban communities.
Prerequisites: junior standing or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 633 Community Development for Low-Income and Minority Communities
3 cr. Undergraduate/Graduate.
Introduction to the principles, ideas, and techniques of community development and the development of minority communities.
Prerequisites: jr st.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 633G Community Development for Low-Income and Minority Communities
3 cr. Undergraduate/Graduate.
Introduction to the principles, ideas, and techniques of community development and the development of minority communities.
Prerequisites: jr st.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 636 Issues in African American Education
3 cr. Undergraduate/Graduate.
Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 636G Issues in African American Education
3 cr. Undergraduate/Graduate.
Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 639 Milwaukee Black Community
3 cr. Undergraduate/Graduate.
Overview of the social, historical, economic and political developments of Milwaukee’s Black community.
Prerequisites: jr st.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 639G Milwaukee Black Community
3 cr. Undergraduate/Graduate.
Overview of the social, historical, economic and political developments of Milwaukee’s Black community.
Prerequisites: jr st.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 640 The Rise and Fall of America’s Southern Civil Rights Movement
3 cr. Undergraduate/Graduate.
African Americans’ struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.
Prerequisites: jr st.
Last Taught: Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 640G The Rise and Fall of America’s Southern Civil Rights Movement
3 cr. Undergraduate/Graduate.
African Americans’ struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.
Prerequisites: jr st.
Last Taught: Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 650 The Civil Rights Movement in Northern Cities
3 cr. Undergraduate/Graduate.
Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 650G The Civil Rights Movement in Northern Cities
3 cr. Undergraduate/Graduate.
Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 660 History of Western Education
3 cr. Undergraduate/Graduate.
Chronological narrative examining educational systems in western countries through the development of various civilizations from ancient Egypt to Europe.
Prerequisites: jr st.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 660G History of Western Education
3 cr. Undergraduate/Graduate.
Chronological narrative examining educational systems in western countries through the development of various civilizations from ancient Egypt to Europe.
Prerequisites: jr st.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 688 Fieldwork in Multicultural Education
1-6 cr. Undergraduate/Graduate.
Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 688G Fieldwork in Multicultural Education
1-6 cr. Undergraduate/Graduate.
Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 698 Fieldwork in International Education
1-6 cr. Undergraduate/Graduate.
Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2019, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 698G Fieldwork in International Education
1-6 cr. Undergraduate/Graduate.
Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2019, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 702 Cultural Foundations of Education Graduate Seminar
3 cr. Graduate.
Introduction to graduate studies. Provides students the skills and knowledge needed to succeed in graduate school.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 705 Sociology of Education and Community Engagement
3 cr. Graduate.
Focus on education and communities as social systems. Examination of race/ethnicity, socioeconomic class, and gender in communities and schools.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 710 Research Methods for Education and Community Engagement
3 cr. Graduate.
Critical examination of historical, philosophical, sociological and comparative research methods and strategies and their implications for community engagement and educational change.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 711 Community Change and Engagement Strategies:
3 cr. Graduate.
History of community change and engagement strategies in America. Strategies for planning and action to address inequality. Students can focus on issue from area of interest.
Prerequisites: grad st.
Course Rules: Not retakable for cr.
Last Taught: Spring 2015, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 712 Community Participation and Power: Advanced Topics
3 cr. Graduate.
Strategies for community participation in policy and practice. Importance of understanding power relations for success. Students choose individual issue focus: e.g., housing, public health, education, the environment, health care, etc.
Prerequisites: grad st.
Course Rules: Not retakable for cr.
Last Taught: Fall 2012, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 713 Structural/Political Analysis in Community Engagement and Popular Education:
3 cr. Graduate.
Theoretical overview of structural and political analysis, focused mainly on the major strands in political economy conducted in relation to specific community case studies.
Prerequisites: grad st; cons instr.
Course Rules: Not retakable for cr.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 714 Practical and Theoretical Issues in Community Change and Engagement
3 cr. Graduate.
Theoretical overview and strategic implications of some of the major social issues confronting community change practitioners, including race/class/gender dynamics, intercultural communication, and leadership.
Prerequisites: grad st, cons instr.
Course Rules: Not retakable for cr.
Last Taught: Fall 2015, Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 715 Popular Education: Theory and Practice
3 cr. Graduate.
Overview of popular education and related educational pedagogies. Strategies for developing popular education programs.
Prerequisites: grad st, cons instr.
Course Rules: Not retakable for cr.
Last Taught: Spring 2016, Spring 2015, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 721 Data Analysis for Educational Policy & Community Engagement
3 cr. Graduate.
Provides students with basic quantitative skills needed for gathering, organizing, interpreting, reporting and presenting data to impact community policies.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 725 Community Organizing in Low-Income and Minority Communities
3 cr. Graduate.
Overview of issues related to organizing in low-income and minority communities.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 740 Modern Philosophies of Education and Community
3 cr. Graduate.
Analysis of philosophies of education and of community processes; exploration of beliefs about values and knowledge within cultural contexts.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 750 History of Education in American Communities
3 cr. Graduate.
Study of consensus and conflict in the ideas and issues shaping education and community in the changing U.S. society; includes an emphasis on the education and engagement of immigrants, minorities and women in and outside of mainstream society.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 770 History of Urban Education Reform Policies
3 cr. Graduate.
Historical overview of urban education reform efforts in America.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 780 Urban Education Policies and Community: Problems and Opportunities
3 cr. Graduate.
Issues impacting urban school districts.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 791 Action Research: Capstone Workshop
3 cr. Graduate.
Capstone research course for students in the Cultural Foundations of Education MS program
Prerequisites: grad st; Ed Pol 710 and 705 (P), 740 & 750 (P) or (C) plus 6 addl cr; cons instr.
Course Rules: Open to Cultural Foundations Students only.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 799 Independent Reading
1-3 cr. Graduate.
For benefit of grad students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 801 Urban Education: Doctoral Seminar
1-3 cr. Graduate.
Administrative leadership and policy development in urban education.
Prerequisites: grad st; Educ 701(P); admis Urban Ed Ph.D. prog
Course Rules: Retakable to 3 cr max.
Last Taught: Fall 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 805 Sociology of Education: Seminar
3 cr. Graduate.
Evaluation of theory, scholarly research, and issues in the sociology of education, with emphasis on empirical studies of social stratification and social mobility.
Prerequisites: Doctoral st or cons instr.
Last Taught: Spring 2020, Spring 2018, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 822 Global Educational Studies
3 cr. Graduate.
Study of worldwide growth in learning needs and how to meet them; inequalities between and within countries; and proposed reforms, innovations and technologies.
Prerequisites: grad st.
Last Taught: Fall 2015, Spring 2014, Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 823 Multicultural Education
3 cr. Graduate.
Study of cultural diversity and its relationship to educational theory and practice. Emphasis upon developing and analyzing programs with a multicultural emphasis.
Prerequisites: grad st; Ed Pol 705(P) or 750(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 833 Seminar in Multicultural Education
3 cr. Graduate.
Emphasis upon devising an individually defined study of a specific educational issue or practice to encourage development of multicultural education.
Prerequisites: grad st; Ed Pol 688(P) or 823(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 837 Emergent Methods in Qualitative Research for Social Foundations
3 cr. Graduate.
Provides students an advance overview of state-of-the-art qualitative research methods.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 840 Seminar in Educational Theory
3 cr. Graduate.
Examination of prominent theories of education and society and application to current educational issues and contexts.
Prerequisites: Doctoral st or cons instr.
Last Taught: Fall 2018, Fall 2017, Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
ED POL 850 Seminar in History of American Education
3 cr. Graduate.
Historical background of contemporary debates and controversies in American education.
Prerequisites: Doctoral st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 897 Seminar in the Philosophy and History of Adult Education
3 cr. Graduate.
Philosophical foundations related to the historical movement of adult education and implications for future directions.
Prerequisites: grad st; Ad Ldsp 657 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 990 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED POL 999 Independent Reading
1-3 cr. Graduate.
Variable content course.
Prerequisites: master's degree.
Course Rules: Retakeable to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

Educational Psychology (ED PSY)

ED PSY 100 Learning Skills Laboratory
2 cr. Undergraduate.
Prerequisites: none. Not open to jr & sr st except as auditors.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 101 Foundations of Academic Success:
1-2 cr. Undergraduate.
A variable content course designed to increase retention through self-assessment, career exploration, decision-making, study skills, goal setting, and available resources at UWM.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 3 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 104 Pathways to Success at UWM:
3 cr. Undergraduate.
Provides students with knowledge of and connection to campus resources, helping with study skills and time management in order to be successful at UWM.
Prerequisites: none.
Course Rules: May not be retaken for credit. Counts as repeat of Ed Psy 101 with same topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 105 Motivation Strategies
3 cr. Undergraduate.
Enhances student success and retention and helps students create greater success in college and life. Strategies for creating academic, professional, and personal success.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 110 Planning Your Major, Career
3 cr. Undergraduate.
Understanding the career planning process for making decisions about academic majors and careers.
Prerequisites: none.
Course Rules: Counts as repeat of Ed Psy 101 with same topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 212 Career Planning and Development for the Multicultural Workplace
3 cr. Undergraduate.
Understanding of and preparation for multicultural work environments; critical reflection on cultural identities, connecting personal history to social and historical forces, understanding bias and oppression.
Prerequisites: OWC-Part A.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 220 Positive Psychology Applied to Culture, Learning, & Development
3 cr. Undergraduate.
Introduction to topics related to happiness and positive aspects of the learning experience, positive psychological constructs that optimize learning.
Prerequisites: OWC Part A
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 277 Cross-Cultural Conversations
3 cr. Undergraduate.
Multicultural dialogue on issues of race, ethnicity, social class, gender, sexual orientation, and other aspects of identity and impacts on personal lives, communities, and society.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
ED PSY 279 Current Topics in Educational Psychology:
1-3 cr. Undergraduate.
Specific topic announced in Schedule of Classes each time course is offered; any additional prerequisites are included in announcement.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 290 Individual Research
1-3 cr. Undergraduate.
Prerequisites: cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 299 Independent Reading
1-3 cr. Undergraduate.
For benefit of undergraduate students unable to secure needed content in regular courses.
Prerequisites: cons instr.
Last Taught: Fall 2019, Summer 2012, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 301 Successful Career Transitions: Ideas, Strategies, Accomplishments
2 cr. Undergraduate.
Help for students to clarify post graduation education or employment goals and successfully address employer/career research, resume development, employer targeting, networking and interview preparation.
Prerequisites: jr st.
Course Rules: Credit/No Credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 320 Principles of Classroom Appraisal and Evaluation
2-3 cr. Undergraduate.
Principles of evaluation with major emphasis upon nonstandardized and informal techniques of appraisal.
Prerequisites: jr st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 325 Practice of Classroom Assessment
2-3 cr. Undergraduate.
Introduces the principles and practices of student-centered classroom assessment. Students gain an understanding of when and how to use a variety of assessment techniques.
Prerequisites: admis to School of Educ.
Course Rules: 1 cr counts as repeat of Ed Psy 326.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 330 Introduction to Learning and Development
3 cr. Undergraduate.
Principles and concepts of learning and development that contribute to the understanding and direction of school learning.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 505 Positive Psychology: Theory and Application in Learning Contexts
1-3 cr. Undergraduate/Graduate.
Introduction to positive psychology and its application in school and learning settings.
Prerequisites: jr st; grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 505G Positive Psychology: Theory and Application in Learning Contexts
1-3 cr. Undergraduate/Graduate.
Introduction to positive psychology and its application in school and learning settings.
Prerequisites: jr st; grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 541 Assessment in Science and Math I
1 cr. Undergraduate.
First of a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 541G Assessment in Science and Math I
1 cr. Undergraduate/Graduate.
First of a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ED PSY 542 Assessment in Science and Math II
1 cr. Undergraduate/Graduate.
Second in a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic ‘Alternative Assess-Sci/Math.’
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 542G Assessment in Science and Math II
1 cr. Undergraduate/Graduate.
Second in a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic ‘Alternative Assess-Sci/Math.’
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 543 Assessment in Science and Math III
1 cr. Undergraduate/Graduate.
Third of a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic ‘Alternative Assess-Sci/Math.’
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 543G Assessment in Science and Math III
1 cr. Undergraduate/Graduate.
Third of a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic ‘Alternative Assess-Sci/Math.’
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 550 Social and Affective Issues in Urban Classrooms
3 cr. Undergraduate/Graduate.
Explore the social/emotional aspects of children's development as related to schooling and present a framework for creating conducive classroom learning environments.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 550G Social and Affective Issues in Urban Classrooms
3 cr. Undergraduate/Graduate.
Explore the social/emotional aspects of children's development as related to schooling and present a framework for creating conducive classroom learning environments.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 551 Social and Affective Issues: Case-Based Problem-Solving
1 cr. Undergraduate/Graduate.
Students will critique various strategies presented in Ed Psy 550 and engage in a problem-solving process focusing on social/emotional issues and classroom interventions.
Prerequisites: jr st; Ed Psy 550(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 551G Social and Affective Issues: Case-Based Problem-Solving
1 cr. Undergraduate/Graduate.
Students will critique various strategies presented in Ed Psy 550 and engage in a problem-solving process focusing on social/emotional issues and classroom interventions.
Prerequisites: jr st; Ed Psy 550(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 575 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st or grad st.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 575G Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st or grad st.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 579G Current Topics in Educational Psychology:
1-3 cr. Undergraduate/Graduate.
Specific topic and prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2011, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 579G Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2011, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 579 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2011, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 581 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of ExcEduc 613.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ED PSY 613G Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of ExcEduc 613.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 624 Educational Statistical Methods I
3 cr. Undergraduate/Graduate.
Overview of common statistical techniques used in educational research, including univariate and bivariate descriptive statistics, inferential statistics, one-way analysis of variance, and linear regression.
Prerequisites: jr st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 624G Educational Statistical Methods I
3 cr. Undergraduate/Graduate.
Overview of common statistical techniques used in educational research, including univariate and bivariate descriptive statistics, inferential statistics, one-way analysis of variance, and linear regression.
Prerequisites: jr st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 631G Cognition: Learning, Problem Solving and Thinking
3 cr. Undergraduate/Graduate.
Overview of historical theories of learning and current theories of cognition. Emphasis on application to instruction, school subjects, workplace training, self-directed learning.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 631 G Cognition: Learning, Problem Solving and Thinking
3 cr. Undergraduate/Graduate.
Overview of historical theories of learning and current theories of cognition. Emphasis on application to instruction, school subjects, workplace training, self-directed learning.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 637G The Psychology of Informal Learning Contexts
3 cr. Undergraduate/Graduate.
Overview of theory and research about how people learn in informal contexts, i.e. after-school settings, online immersive environments, science centers, museums and cultural institutions.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 637 The Psychology of Informal Learning Contexts
3 cr. Undergraduate/Graduate.
Overview of theory and research about how people learn in informal contexts, i.e. after-school settings, online immersive environments, science centers, museums and cultural institutions.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 640 Human Development: Theory and Research
3 cr. Undergraduate/Graduate.
Survey of theory and research in human development from conception to death, emphasizing the child and adolescent periods of growth.
Prerequisites: jr st.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 640G Human Development: Theory and Research
3 cr. Undergraduate/Graduate.
Survey of theory and research in human development from conception to death, emphasizing the child and adolescent periods of growth.
Prerequisites: jr st.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 640 Human Development: Theory and Research
3 cr. Undergraduate/Graduate.
Survey of theory and research in human development from conception to death, emphasizing the child and adolescent periods of growth.
Prerequisites: jr st.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 710 Child and Adolescent Mental Health Issues in Schools
3 cr. Graduate.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 711 Cultural Context of Children's Mental Health
3 cr. Graduate.
Influence of culture on the mental health of children; topography of cultural difference in the US, culture-bound syndromes, influence of cultural variables on mental health.
Prerequisites: grad st
Course Rules: Counts as repeat of Ed Psy 779 with same topic.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 712 Mentally Healthy Classroom and School Environments
3 cr. Graduate.
Issues pertaining to socio-emotional learning in school settings; techniques, leadership, & collaboration for fostering emotionally healthy school environments.
Prerequisites: grad st
Last Taught: Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 713 Mental Health Needs in Urban Environments
3 cr. Graduate.
Introduction for educators to the unique context and characteristics of urban environments, cultivation of understanding of factors that can shape the mental health of developing children.
Prerequisites: grad st
Last Taught: Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
ED PSY 720 Techniques of Educational and Psychological Measurement
3 cr. Graduate.
Overview of principles of measurement in educational and psychological testing. Topics include test reliability, test validity, test bias, test score interpretation, and standardized tests.
Prerequisites: grad st; Ed Psy 624(P)
Last Taught: Summer 2020, Fall 2019, Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 724 Educational Statistical Methods II
4 cr. Graduate.
Applications of common statistical techniques used in educational research, including two-way analysis of variance, multiple mean comparisons, and multiple regression.
Prerequisites: grad st; Ed Psy 624(P)
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 725 Improving Teaching and Learning with Classroom-Based Assessments
3 cr. Graduate.
Development and implementation of classroom-based assessment instruments within existing large-scale state and district accountability systems.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as repeat of CurrIns 725.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 728 Techniques of Educational Research
3 cr. Graduate.
Study of major design and analysis strategies used in educational research with emphasis upon the critique of existing studies and the planning of future studies.
Prerequisites: grad st & Ed Psy 624(P).
Last Taught: Fall 2019, Spring 2018, Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 731 Cognition and the Design of Instruction
3 cr. Graduate.
Review of theories of human learning and cognition; emphasis on research on learning from text and the design of text and learning adjuncts.
Prerequisites: grad st; Ed Psy 631(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 732 Cognitive Behavioral Intervention Strategies in Education
3 cr. Graduate.
Theory and application of effective behavioral treatments for children with adjustment problems in school. Emphasis on principles and techniques of cognitive and multimodal behavioral therapy.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 733 Educational Applications of Social Psychology
3 cr. Graduate.
Implications of theory and research in socialization, attitude development and change, group processes, social perception and role behavior for classroom practices and teacher-student interaction.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 734 Contextual Determinants of Motivation
3 cr. Graduate.
Review of research concerning the effects of teacher expectations, school and classroom climate, and psycho-social variables on student motivation. Focus on problem-solving.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 735 Social Cognition in Educational Psychology
3 cr. Graduate.
Theory and research on basic cognitive elements and processes used in understanding the self and others with emphasis on applications in educational and counseling settings.
Prerequisites: grad st; Ed Psy 631(P) or 640(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 741 Cognitive Development
3 cr. Graduate.
Examination of theory and research in cognitive development and applications to developmental assessment and instruction.
Prerequisites: grad st; Ed Psy 640(P) or equiv or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 742 Personality Theories and the Educational Process
3 cr. Graduate.
A study of the major theories of personality growth and development. An emphasis upon the application of the theories to the educational process.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 743 Human Development: Study of Infancy and Early Childhood
3 cr. Graduate.
Study of physical, intellectual, social and emotional development from birth to six years.
Prerequisites: grad st, Ed Psy 640(P) or cons instr.
Last Taught: Fall 2012, Fall 2011, Fall 2010, Summer 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 745 Human Development: Study of Middle Childhood
3 cr. Graduate.
Study of the physical, intellectual, social, and emotional development of children from 6-12 years of age.
Prerequisites: grad st & Ed Psy 640(P) or equiv or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 746 Human Development: Study of the Adolescent
3 cr. Graduate.
Study of physical, intellectual, social and emotional development during adolescence.
Prerequisites: grad st; Ed Psy 640(P) or cons instr.
Last Taught: Spring 2020, Fall 2017, Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
ED PSY 747 Human Development: Study of the Adult
3 cr. Graduate.
Physical, social, affective and cognitive development which characterizes the period from young adulthood through aging.
Prerequisites: grad st & Ed Psy 640(P) or equiv or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 748 Oral Language, Cognition, and Literacy
3 cr. Graduate.
Psychological and linguistic bases of speaking, reading, and writing in children and adults from diverse populations. Importance of language and cognition for literacy development.
Prerequisites: grad st; college-level course in language acquisition or reading or child development or linguistics or cons instr.
Course Rules: Ed Psy 748 & Linguis 748 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 751 Professional and Historical Issues in School Psychology
3 cr. Graduate.
Introduction to the practice of psychology in the schools. This course includes the history and systems of psychology, and professional practice issues.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 752 Developmental Psychopathology
3 cr. Graduate.
Study of characteristics, definitions, developmental course, correlates, causes, contexts, and outcomes of psychopathology in children and adolescents. Explores interventions within a developmental systems perspective.
Prerequisites: Ed Psy 755 or Couns 710 or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 755 Assessment and Intervention: School Age
3 cr. Graduate.
Introduction to school psychology practices in assessment and intervention for school age students. Includes didactic and clinical experiences.
Prerequisites: grad st; Ed Psy 720; cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 756 Assessment and Intervention: Early Childhood
3 cr. Graduate.
Introduction to school psychology practices in assessment and intervention for early childhood children and families. Didactic and clinical experiences are included.
Prerequisites: grad st; Ed Psy 755; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 760 Academic Intervention and Alternative Assessment
3 cr. Graduate.
Reviews and critiques major educational reforms in regular and exceptional education. Alternative assessment paradigms, context variables in classrooms, teacher-child interactions, and change strategies are examined.
Prerequisites: grad st.; Ed Psy 755 (P)
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 779 Current Topics in Educational Psychology
1-3 cr. Graduate.
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 790 Research or Thesis
1-3 cr. Graduate.
Master's level course.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 799 Independent Reading
1-3 cr. Graduate.
For benefit of superior graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 801 Urban Education: Doctoral Seminar in Educational Psychology
3 cr. Graduate.
Overview of theory and research in educational psychology with emphasis on problems and issues in urban settings.
Prerequisites: grad st admis to urban educ doctoral prog; Educ 701.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 814 Cognition and Emotion: The Affective Components of Human Thought
3 cr. Graduate.
Intersection of cognition and emotion with particular focus on affective processes.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 820 Multiple Regression
3 cr. Graduate.
Basic and advanced topics in linear regression analysis, including prediction, mediation and moderation effects, curvilinear relationship, categorical predictors, and other general linear models like ANCOVA.
Prerequisites: grad st; Ed Psy 724(P) or cons instr.
Last Taught: Fall 2019, Fall 2017, Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
ED PSY 821 Psychometric Theory and Practice
3 cr. Graduate.
Advanced topics in psychometrics, covering classical test theory, generalizability theory, and item response theory; test bias, item analysis, and test equating and linking.
Prerequisites: grad st; Ed Psy 724(P) or equiv; Ed Psy 720(P) or equiv.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 822 Item Response Theory
3 cr. Graduate.
A survey of IRT models and their applications in measurement issues, such as latent trait estimation, model fit, differential item functioning, and computerized adaptive testing.
Prerequisites: grad st; Ed Psy 825(P) or 820 (P) or equiv; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 823 Structural Equation Modeling
3 cr. Graduate.
Study of applied structural equation modeling including path analysis, confirmatory factor analysis and other latent variable models; exposure to computer programs used for model analysis.
Prerequisites: grad st; Ed Psy 825(P) or 820 (P) or equiv; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 824 Advanced Experimental Design and Analysis
3 cr. Graduate.
Advanced topics in the design and statistical analysis of experiments applied to educational research, including n-way analysis of variance and repeated measures analysis of variance. Prereq: grad st; Ed Psy 724(P) or equiv
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 825 Multivariate Methods
3 cr. Graduate.
Multivariate analysis methods such as MANOVA, discriminant analysis, factor analysis, and principal components analysis, and their applications in the social sciences.
Prerequisites: grad st; Ed Psy 724(P) or cons instr; Ed Psy 820(R).
Last Taught: Spring 2018, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 826 Analysis of Cross-Classified Categorical Data
3 cr. Graduate.
Use of methods that include chi-square, log linear, and logistic regression models to analyze cross-classified categorical data with applications in the social sciences.
Prerequisites: grad st; Ed Psy 724(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 827 Survey Research Methods in Education
3 cr. Graduate.
Advanced topics in survey design, administration, and analysis. Topics include sampling designs, data collection mode, measurement error, and small- and large-scale survey data analysis techniques.
Prerequisites: grad st; Ed Psy 724(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 828 Program Evaluation in Education
3 cr. Graduate.
An examination of the issues related to educational program evaluation; application of statistical and measurement methods to evaluation strategies and designs.
Prerequisites: grad st; Ed Psy 724(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 829 Instrument Development
3 cr. Graduate.
Students will develop an instrument to measure some psychological construct of research interest. Topics include construct development, test and item specifications, item writing, conducting reliability and validity studies.
Prerequisites: grad st; Ed Psy 724(P).
Last Taught: Fall 2011, Fall 2009, Fall 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 831 Cognition: Theory and Research
3 cr. Graduate.
A detailed look at cognitive theory and research underlying learning and instruction. Aimed at students who expect to use some aspect of cognitive theory in their research.
Prerequisites: grad st; Ed Psy 631(P), 731(P) or course in human verbal learning.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 832 Theory of Hierarchical Linear Modeling
3 cr. Graduate.
Theories and applications of the statistical techniques for analyzing multilevel data in which individuals are nested within clusters or repeated measures are nested within individuals.
Prerequisites: grad st; Ed Psy 820(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 833 Social Psychology of Group Differences: Race and Ethnicity
3 cr. Graduate.
Social psychological research and theory concerning race, ethnicity and racial and ethnic relations in American society with applications to a variety of educational situations.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ED PSY 834 The Psychology of Achievement Motivation
3 cr. Graduate.
Review of research on personality factors that influence achievement motivation. Designed for those interested in incorporating aspects of motivation theory into their research.
Prerequisites: grad st; Ed Psy 734(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
**ED PSY 838 Research Practicum in Educational Psychology**
3 cr. Graduate.
Supervised research practicum, strategies for dissertation writing process and presentation.
**Prerequisites:** grad st.
**Course Rules:** Retakable to 12 cr max.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 840 Theory and Issues in Human Development**
3 cr. Graduate.
Study of theory, experimental design, and research in human development.
**Prerequisites:** grad st; Ed Psy 640(P).
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 844 The Multicultural Family**
3 cr. Graduate.
Course examines theory and research for studying development in the family context as it applies to ethnic minority groups in the U.S.
**Prerequisites:** grad st; Ed Psy 640(P).
**Last Taught:** Fall 2018, Spring 2017, Spring 2015, Fall 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 845 Immigrant Child in Developmental Perspective**
3 cr. Graduate.
Examines immigrant children and families from a developmental perspective. Focus on current issues in theory and research on the study of immigrant children.
**Prerequisites:** grad st; Ed Psy 640 (P)
**Last Taught:** Fall 2019, Fall 2016, Fall 2014, Spring 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 850 Objective Personality Assessment**
3 cr. Graduate.
Objective diagnostic techniques used in the personality assessment of school-age populations.
**Prerequisites:** grad st, Ed Psy 755 & 756. Course in behavior disorders of children or in abnormal psychology recom.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 851 Assessment and Interventions: Personality, Social and Emotional Functioning**
3 cr. Graduate.
Introduction to school psychology practices of assessment and interventions for psychological, social, and emotional functioning of children and adolescents. Didactic and clinical experiences included.
**Prerequisites:** Ed Psy 742 & 752; writ cons instr.
**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 852 Social, Psychological, and Biological Basis of Learning Disorders**
3 cr. Graduate.
Current assessment and intervention in the approaches to learning and emotional difficulties. Includes social, psychological, cultural, educational, and biological factors affecting children and adolescents.
**Prerequisites:** grad st; Ed Psy 751 or Couns 710 or equiv.
**Last Taught:** Fall 2019, Spring 2018, Fall 2017, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 853 Biological Basis of Childhood Disorders**
3 cr. Graduate.
Current theory, research, and clinical findings in the biological basis of childhood disorders. Neurodevelopmental assessment and implications for intervention with cognitive, behavioral, and psychosocial disorders.
**Prerequisites:** grad st; Ed Psy 755 or cons instr.
**Last Taught:** Summer 2005, Summer 2002, Fall 1999, Summer 1997.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 879 Current Topics in Educational Psychology**
1-3 cr. Graduate.
Specific topic announced in schedule of classes each time course is offered; any additional prerequisites are included in announcement.
**Prerequisites:** grad st.
**Course Rules:** May be repeated with change in topic to max of 9 cr.
**Last Taught:** Fall 1991.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 880 Proseminar in Urban Education: Educational Psychology**
2 cr. Graduate.
An examination of selected problems and issues in urban education.
**Prerequisites:** grad st; admis to urban educ doctoral prog.
**Last Taught:** Spring 1985, Fall 1984, Spring 1984.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 888 Candidate for Degree**
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
**Prerequisites:** graduate standing.
**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
**Last Taught:** Summer 2019, Spring 2018, Fall 2017, Summer 2015.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 922 Seminar in Measurement and Evaluation:**
3 cr. Graduate.
Specific topic and any additional prerequisites are announced in timetable each time course is offered.
**Prerequisites:** grad st & cons instr.
**Course Rules:** May be repeated with change in topic to max of 9 cr.
**Last Taught:** Fall 2003, Fall 2001, Fall 1995, Fall 1992.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 929 Seminar in Statistics and Research Design**
3 cr. Graduate.
Specific topic and any prerequisites announced in schedule of classes each time course is offered.
**Prerequisites:** grad st; cons instr.
**Course Rules:** May be repeated with change in topic to max of 9 cr.
**Last Taught:** Spring 2011, Spring 1996, Fall 1990, Spring 1990.
**Current Offerings:** https://catalog.uwm.edu/course-search/

**ED PSY 939 Seminar in Human Learning**
3 cr. Graduate.
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
**Prerequisites:** grad st; cons instr.
**Course Rules:** May be repeated with change in topic to max of 9 cr.
**Last Taught:** Spring 1990.
**Current Offerings:** https://catalog.uwm.edu/course-search/
ED PSY 949 Seminar in Human Development:  
3 cr. Graduate.  
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 952 Pediatric Psychology in Urban Settings  
3 cr. Graduate.  
Theory, research and clinical practice addressing the mental health needs of children in urban settings. Risk and protective factors are explored within a resiliency framework.  
Prerequisites: Ed Psy 752(R), Ed Psy 755(R) or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 955 Advanced Therapeutic Interventions  
3 cr. Graduate.  
Develop theoretical understanding and competencies related to advance-level prevention and intervention work, including group prevention and intervention and family intervention.  
Prerequisites: grad st, writ cons instr, Ed Psy 732 or equiv.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 959 Seminar in School Psychology: Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 960 Evidence-Based Practices in School Psychology: Prevention & Intervention  
3 cr. Graduate.  
Evidence-based practices for school psychologists and other professionals working in school and clinic settings.  
Prerequisites: grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 974 Beginning Practicum in School Psychology  
1-3 cr. Graduate.  
Supervised practice in schools, clinics or institutions. Practical experience in administration and interpretation of psychological tests, preparation of case reports and staffing of cases under supervision.  
Prerequisites: grad st; enrollment in School Psych prog; cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 975 Advanced Practicum in School Psychology  
3-9 cr. Graduate.  
Advanced psycho-diagnostic practice in schools, clinics or institutions under supervision of a psychologist.  
Prerequisites: grad st; Ed Psy 974; writ cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 976 MS Internship in School Psychology  
1-6 cr. Graduate.  
Provides opportunity for masters students to acquire advanced clinical skills in consultation, interventions, and psychological assessment. Supervised experiences in schools.  
Prerequisites: grad st; completion of all course requirements for School Psychology certification; writ cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 977 Advanced Practicum in Intervention  
1-3 cr. Graduate.  
Training in the design, implementation, and evaluation of therapeutic assessments and interventions.  
Prerequisites: grad st; Ed Psy 732 or equiv.  
Course Rules: Sat/Unsat grade only. Retakable to 6 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 978 Advanced Practicum in Supervision  
1-3 cr. Graduate.  
Didactic and experiential training in supervision in school psychology.  
Prerequisites: grad st; Ed Psy 732 or equiv.  
Course Rules: Re-takeable up to 6 credits.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 986 Doctoral Internship in School Psychology  
3-6 cr. Graduate.  
Provides opportunity for doctoral students to acquire advanced clinical skills in consultation, intervention, and assessment practices. Supervised experiences in school, mental health, and medical setting.  
Prerequisites: grad st; writ cons instr; admis to Urban Educ doctoral prog & identification of specific specialization.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 990 Research or Thesis  
1-3 cr. Graduate.  
Prerequisites: grad st; cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ED PSY 999 Independent Reading  
1-3 cr. Graduate.  
For doctoral students unable to secure needed content in regular courses.  
Prerequisites: grad st; cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/
Electrical Engineering (ELECENG)

ELECENG 101 Fundamentals of Electrical Engineering  3 cr. Undergraduate.
Principles of electrical engineering including intro to fundamental electrical quantities and circuit analysis. Lab with reinforcing experiments, introduction to electrical test equipment, computer simulation techniques, and team project.
Prerequisites: MATH 116(C).
Course Rules: Counts as repeat of ELECENG 299 with same topic. Not open to students who have completed ELECENG 301.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 150 Electronic Technology in the World Around Us  3 cr. Undergraduate.
An introductory course that explains the modern technology affecting our everyday life. Topics include: digital communication, satellites, television, stereo system, computer, radar, microwaves, lasers.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 234 Analytical Methods in Engineering  4 cr. Undergraduate.
Prerequisites: Grade of C or better in Math 232(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 299 Topics in Electrical Engineering:  1-3 cr. Undergraduate.
Work on new material in electrical engineering. Section title and credits announced whenever course is offered.
Prerequisites: specific courses dependent on topic.
Course Rules: May be retaken w/chg in topic to max of 6 cr max.
Last Taught: Fall 2011, Fall 2010, Fall 2005, Fall 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 301 Electrical Circuits I  3 cr. Undergraduate.
Circuit laws and analysis, resistive circuits, energy storage, AC circuits and power, three-phase circuits, computer-aided analysis.
Prerequisites: Physics 210(C) or 220(C).
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 305 Electrical Circuits II  4 cr. Undergraduate.
Transformers, transient response, network functions, s-domain, response, filters, fourier analysis, two-ports. 3 hr Lec/2 hr Lab.
Prerequisites: C or better in ElecEng 234(P); ElecEng 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 306 Introduction to Electrical Engineering  4 cr. Undergraduate.
An introduction to electrical circuits with laboratory. Topics include dc and ac circuits, signal transients, motors, transformers and operational amplifiers.
Prerequisites: Physics 210(P); ElecEng 234(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 310 Signals and Systems  3 cr. Undergraduate.
Analysis techniques for signals and systems in both continuous and discrete time. Signal representation, including fourier and laplace transforms; system definitions and properties.
Prerequisites: ElecEng 305(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 330 Electronics I  4 cr. Undergraduate.
Op-amps, diodes, bipolar junction transistors, mos field effect circuit applications.
Prerequisites: ElecEng 305(C).
Course Rules: Counts as repeat of ElecEng 331.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 335 Electronics II  4 cr. Undergraduate.
CMOS Logic Gates, Differential and multistage amplifiers, IC techniques, frequency response.
Prerequisites: ElecEng 330(P), 310(C).
Course Rules: Counts as repeat of ElecEng 332.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 354 Digital Logic  3 cr. Undergraduate.
Number systems and binary codes; Boolean Algebra and basic results; switching functions; minimization techniques; analysis and design of combinational and sequential logic circuits.
Prerequisites: CompSci 240(P) or 250(201)(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 361 Electromagnetic Fields  3 cr. Undergraduate.
Principles of electrostatics and electromagnetics; laws of fields; resistance, inductance, and capacitance; dielectrics; energy storage; Maxwell’s field equation.
Prerequisites: grade C or better in Physics 210(P) & 215(P) or Physics 220(P); ElecEng 234(P); grade C or better in Math 233(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 362 Electromechanical Energy Conversion
4 cr. Undergraduate.
Principles of electrical and electromechanical energy conversion; transformers, polyphase induction and synchronous machines, d.c. machines, single phase motors, including design parameters and testing; with lab (3 hr lec recitation & 2 hr lab per week).
Prerequisites: ElecEng 305(P) & ElecEng 361(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 367 Introduction to Microprocessors
4 cr. Undergraduate.
Fundamentals of microprocessors, including assembly language programming, hardware design, interfacing peripherals and programmable I/O devices, and social/ethical issues in engineering design and practice. Lab.
Prerequisites: CompSci 240(P) or 250(201)(P); & C or better in ElecEng 354(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 410 Digital Signal Processing
3 cr. Undergraduate/Graduate.
Spectral computation including DFT and FFT, sampling of continuous signals, digital filter design including FIR and IIR filters.
Prerequisites: jr st; ElecEng 310(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 410G Digital Signal Processing
3 cr. Undergraduate/Graduate.
Spectral computation including DFT and FFT, sampling of continuous signals, digital filter design including FIR and IIR filters.
Prerequisites: jr st; ElecEng 310(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 420 Random Signals and Systems
3 cr. Undergraduate/Graduate.
Fundamental probability and random process theory, power spectral density. Linear systems and random signals, auto- and cross-correlation, optimum MSE filter design.
Prerequisites: jr st; ElecEng 310(P); or grad st.
General Education Requirements: QLB
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 420G Random Signals and Systems
3 cr. Undergraduate/Graduate.
Fundamental probability and random process theory, power spectral density. Linear systems and random signals, auto- and cross-correlation, optimum MSE filter design.
Prerequisites: jr st; ElecEng 310(P); or grad st.
General Education Requirements: QLB
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 421 Communication Systems
3 cr. Undergraduate/Graduate.
Basic concepts of information; modulation, transmission and demodulation; presentation of information; practical communication systems.
Prerequisites: jr st; ElecEng 335(C).
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 421G Communication Systems
3 cr. Undergraduate/Graduate.
Basic concepts of information; modulation, transmission and demodulation; presentation of information; practical communication systems.
Prerequisites: jr st; ElecEng 335(C).
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 430 Energy Modeling
3 cr. Undergraduate/Graduate.
Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.
Prerequisites: jr st; or cons instr.
Course Rules: Jointly offered with MechEng 430. 
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 430G Energy Modeling
3 cr. Undergraduate/Graduate.
Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.
Prerequisites: jr st; or cons instr.
Course Rules: Jointly offered with MechEng 430.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 436 Introduction to Medical Instrumentation
3 cr. Undergraduate/Graduate.
Biopotential signals and electrodes; Biopotential Amplifiers and Signal Processing; Sensors, Detectors, and Sources; Electrical Safety; Specifications; Error Analysis; Device Approval Process.
Prerequisites: jr st; ElecEng 305(P) or equiv.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 436G Introduction to Medical Instrumentation
3 cr. Undergraduate/Graduate.
Biopotential signals and electrodes; Biopotential Amplifiers and Signal Processing; Sensors, Detectors, and Sources; Electrical Safety; Specifications; Error Analysis; Device Approval Process.
Prerequisites: jr st; ElecEng 305(P) or equiv.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 437 Introduction to Biomedical Imaging  
3 cr. Undergraduate/Graduate.  
Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.  
Prerequisites: senior standing; completion of BME 310(P) or ELECENG 310(P).  
Course Rules: BME 437/ELECENG 437 are jointly offered and count as repeats of one another.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 437G Introduction to Biomedical Imaging  
3 cr. Undergraduate/Graduate.  
Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.  
Prerequisites: senior standing; completion of BME 310(P) or ELECENG 310(P).  
Course Rules: BME 437/ELECENG 437 are jointly offered and count as repeats of one another.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 439 Introduction to Biomedical Optics  
3 cr. Undergraduate/Graduate.  
Prerequisites: senior standing; ELECENG 310(P) or BME 310 (P).  
Course Rules: BME 439/ELECENG 439 are jointly offered and count as repeats of one other.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 439G Introduction to Biomedical Optics  
3 cr. Undergraduate/Graduate.  
Prerequisites: senior standing; ELECENG 310(P) or BME 310 (P).  
Course Rules: BME 439/ELECENG 439 are jointly offered and count as repeats of one other.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 451G Introduction to VLSI Design  
3 cr. Undergraduate/Graduate.  
Introduction to design of VLSI circuits. Ic fundamentals including: energy band diagrams, transistor optimization, design approaches including both custom and semi-custom.  
Prerequisites: jr st, ElecEng 330(P), 354(P).  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 457 Digital Logic Laboratory  
3 cr. Undergraduate/Graduate.  
Digital design using a hardware description language and FPGAs. Topics include VHDL, Design Methodologies, Finite State Machines, Multiple clock domains, Timing Analysis, Simulation and Verification.  
Prerequisites: jr st, ElecEng 354(P).  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 457G Digital Logic Laboratory  
3 cr. Undergraduate/Graduate.  
Digital design using a hardware description language and FPGAs. Topics include VHDL, Design Methodologies, Finite State Machines, Multiple clock domains, Timing Analysis, Simulation and Verification.  
Prerequisites: jr st, ElecEng 354(P).  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 458 Computer Architecture  
3 cr. Undergraduate/Graduate.  
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.  
Prerequisites: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).  
Course Rules: Jointly offered with & counts as repeat of CompSci 458.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 458G Computer Architecture  
3 cr. Undergraduate/Graduate.  
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.  
Prerequisites: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).  
Course Rules: Jointly offered with & counts as repeat of CompSci 458.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

ELECENG 461 Microwave Engineering  
3 cr. Undergraduate/Graduate.  
Review from electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications.  
Prerequisites: jr st, ElecEng 361(P) or equiv.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 461G Microwave Engineering
3 cr. Undergraduate/Graduate.
Review of electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications.
Prerequisites: jr st; ElecEng 361(P) or equiv.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 462 Antenna Theory
3 cr. Undergraduate/Graduate.
Analysis and design of antennas: antenna fundamentals; wire antennas; dipole, monopole, and loop antennas; antenna arrays; aperture antennas; horn, slot, and parabolic dish antennas.
Prerequisites: jr st; ElecEng 361(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 464 Fundamentals of Photonics
3 cr. Undergraduate/Graduate.
Fundamentals of ray, electromagnetic, and beam optics; polarization and polarization-based devices; optics of layered media; and guided-wave optics, including optical fibers.
Prerequisites: jr st & ElecEng 361(P); or grad st.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 465 Broadband Optical Networks
3 cr. Undergraduate/Graduate.
Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.
Prerequisites: jr st; ElecEng 305(P) & 361(P); or grad st.
Course Rules: Counts as repeat of ElecEng 490(690) w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 465G Broadband Optical Networks
3 cr. Undergraduate/Graduate.
Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.
Prerequisites: jr st; ElecEng 305(P) & 361(P); or grad st.
Course Rules: Counts as repeat of ElecEng 490(690) w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 466G Broadband Optical Networks
3 cr. Undergraduate/Graduate.
Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.
Prerequisites: jr st; ElecEng 305(P) & 361(P); or grad st.
Course Rules: Counts as repeat of ElecEng 490(690) w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 467 Electric Power Systems
3 cr. Undergraduate/Graduate.
Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability.
Prerequisites: jr st; ElecEng 362(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 467G Electric Power Systems
3 cr. Undergraduate/Graduate.
Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability.
Prerequisites: jr st; ElecEng 362(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 471 Introduction to Wind Energy
3 cr. Undergraduate/Graduate.
Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.
Prerequisites: jr st; or cons instr.
Course Rules: MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 471G Introduction to Wind Energy
3 cr. Undergraduate/Graduate.
Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.
Prerequisites: jr st; or cons instr.
Course Rules: MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 472 Introduction to Control Systems
4 cr. Undergraduate/Graduate.
Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.
Prerequisites: jr st; ElecEng 310(P), CompSci 240 (P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 474G Introduction to Control Systems
4 cr. Undergraduate/Graduate.
Modeling of continuous systems; stability considerations, analysis and
design of feedback control systems in time and frequency domains.
Prerequisites: jr st; ElecEng 310(P), CompSci 240 (P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 481 Electronic Materials
3 cr. Undergraduate/Graduate.
Electronic conduction in materials. Electronic phenomena in metals,
semiconductors, and insulators. Materials production, characterization,
and application to micro-electronic devices, with particular emphasis on
thin film technology.
Prerequisites: jr st; MatlEng 201(P) or cons instr.
Course Rules: MatlEng 481 and ElecEng 481 are jointly offered; they
count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 481G Electronic Materials
3 cr. Undergraduate/Graduate.
Electronic conduction in materials. Electronic phenomena in metals,
semiconductors, and insulators. Materials production, characterization,
and application to micro-electronic devices, with particular emphasis on
thin film technology.
Prerequisites: jr st; MatlEng 201(P) or cons instr.
Course Rules: MatlEng 481 and ElecEng 481 are jointly offered; they
count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 482 Introduction to Nanoelectronics
3 cr. Undergraduate/Graduate.
Wave properties of electrons, diffraction, Schrödinger's equation,
quantum confinement, band theory, tunnel junctions, Coulomb blockade,
quantum dots and wires, quantum conductance and ballistic transport.
Prerequisites: jr st; ElecEng 330(C), ElecEng 361(C).
Last Taught: Fall 2016, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 482G Introduction to Nanoelectronics
3 cr. Undergraduate/Graduate.
Wave properties of electrons, diffraction, Schrödinger's equation,
quantum confinement, band theory, tunnel junctions, Coulomb blockade,
quantum dots and wires, quantum conductance and ballistic transport.
Prerequisites: jr st; ElecEng 330(C), ElecEng 361(C).
Last Taught: Fall 2016, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 490 Topics in Electrical Engineering:
1-3 cr. Undergraduate/Graduate.
Specific topics, credits, and any additional prerequisites will be
announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 490G Topics in Electrical Engineering:
1-3 cr. Undergraduate/Graduate.
Specific topics, credits, and any additional prerequisites will be
announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 541 Integrated Circuits and Systems
3 cr. Undergraduate/Graduate.
Differential and operational amplifier circuits. Linear integrated circuits:
comparators, regulators, amplifiers and phase locked loops. Digital
integrated circuits: mos shift registers, ram, a-to-d converters.
Prerequisites: jr st; ElecEng 330(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 541G Integrated Circuits and Systems
3 cr. Undergraduate/Graduate.
Differential and operational amplifier circuits. Linear integrated circuits:
comparators, regulators, amplifiers and phase locked loops. Digital
integrated circuits: mos shift registers, ram, a-to-d converters.
Prerequisites: jr st; ElecEng 330(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 545G FPGA Embedded CPUs & Firmware Development
3 cr. Undergraduate/Graduate.
Use of modern embedded system central processor units (CPUs)
with integrated field-programmable gate arrays (FPGAs). Design and
implementation of firmware for these devices.
Prerequisites: jr st; ElecEng 367(P) & 457(P).
Course Rules: Jointly offered with & counts as repeat of ElecEng 545.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 545 FPGA Embedded CPUs & Firmware Development
3 cr. Undergraduate/Graduate.
Use of modern embedded system central processor units (CPUs)
with integrated field-programmable gate arrays (FPGAs). Design and
implementation of firmware for these devices.
Prerequisites: jr st; ElecEng 367(P) & 457(P).
Course Rules: Jointly offered with & counts as repeat of ElecEng 545.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 562 Telecommunication Circuits
3 cr. Undergraduate/Graduate.
Radio frequency communication systems, terrestrial and satellite
communication systems, mixers, oscillators, filters, design considerations
for receivers and transmitters.
Prerequisites: sr st; ElecEng 330(P).
Last Taught: Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 562G Telecommunication Circuits
3 cr. Undergraduate/Graduate.
Radio frequency communication systems, terrestrial and satellite communication systems, mixers, oscillators, filters, design considerations for receivers and transmitters.
Prerequisites: sr st; ElecEng 335(C).
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 565 Optical Communication
3 cr. Undergraduate/Graduate.
Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems.
Prerequisites: sr st; ElecEng 361(P), & 330(P) or 465(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 565G Optical Communication
3 cr. Undergraduate/Graduate.
Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems.
Prerequisites: sr st; ElecEng 361(P), & 330(P) or 465(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 568 Applications of Digital Signal Processing
3 cr. Undergraduate/Graduate.
Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing.
Prerequisites: ElecEng 310(P), 367(P).
Course Rules: Counts as repeat of ElecEng 490 and 890 w/similar topic; Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 568G Applications of Digital Signal Processing
3 cr. Undergraduate/Graduate.
Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing.
Prerequisites: ElecEng 310(P), 367(P).
Course Rules: Counts as repeat of ElecEng 490 and 890 w/similar topic; Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 572 Power Electronics
3 cr. Undergraduate/Graduate.
Power diodes and transistors; static converters; D.C. power supplies; power transistor circuits; SCR’s; classical and modern forced-commutation inverters; choppers; cycloconverters, applications in power.
Prerequisites: sr st; ElecEng 335(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 574 Intermediate Control Systems
3 cr. Undergraduate/Graduate.
State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.
Prerequisites: sr st; MechEng 474(P) or ElecEng 474(402(P); or grad st.
Course Rules: ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 478(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 574G Intermediate Control Systems
3 cr. Undergraduate/Graduate.
State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.
Prerequisites: sr st; MechEng 474(P) or ElecEng 474(402(P); or grad st.
Course Rules: ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 478(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 575 Analysis of Electric Machines and Motor Drives
3 cr. Undergraduate/Graduate.
Reference frame analysis, computer simulation, permanent magnet synchronous machines, induction machines, power electronic inverters, pulselwidth modulation, vector control.
Prerequisites: jr st, ElecEng 330(P) & 362(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 575G Analysis of Electric Machines and Motor Drives
3 cr. Undergraduate/Graduate.
Reference frame analysis, computer simulation, permanent magnet synchronous machines, induction machines, power electronic inverters, pulselwidth modulation, vector control.
Prerequisites: jr st, ElecEng 330(P) & 362(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 588 Fundamentals of Nanotechnology
3 cr. Undergraduate/Graduate.
Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications.
Prerequisites: jr st; non-ElecEng majors; ElecEng 361(P) or equiv.
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 588G Fundamentals of Nanotechnology
3 cr. Undergraduate/Graduate.
Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications.
Prerequisites: jr st; non-ElecEng majors; ElecEng 361(P) or equiv.
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 595 Capstone Design Project
5 cr. Undergraduate.
Team project in simulated industrial environment. Each team develops solutions to complex real world design problems and reports results in professional writing and oral presentation.
Prerequisites: sr st; ELECENG 335(P) and ELECENG 367(P).
Course Rules: Counts as repeat of ELECENG 355.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 599 Senior Thesis
1-3 cr. Undergraduate.
Independent research under the direction of a faculty member; submission of a written thesis is required. 3 cr total required.
Prerequisites: sr st & cons instr.
Course Rules: May be retaken to max of 3 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr toward the undergraduate degree.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 699G Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr toward the undergraduate degree.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, Math 700 & MechEng 700 are jointly offered and count as repeates of one another
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 701 Advanced Linear System Analysis
3 cr. Graduate.
Theory and analysis of linear dynamic systems; discrete and continuous state models; linear algebra for dynamic systems; state transition matrix, numerical methods; and applications.
Prerequisites: grad st.
Course Rules: ElecEng 701 & MechEng 701 are jointly offered and count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 710 Artificial Intelligence
3 cr. Graduate.
Programming, search techniques game playing, knowledge representation, knowledge acquisition, expert systems. Selected topics from learning. Natural language understanding, vision and robotics.
Prerequisites: grad st; CompSci 252 & 535.
Course Rules: Not open to students who have cr in CompSci 710.
Last Taught: Fall 2019, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 711 Introduction to Machine Learning
3 cr. Graduate.
Introduction to machine learning techniques and applications, including optimal classification, regression, support vector machines, boosting, deep learning, and clustering.
Prerequisites: grad st
Course Rules: Not open to students who have cr in Compsci 711 which is identical to Eleceng 711.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 712 Image Processing
3 cr. Graduate.
This course covers the materials required to process and enhance photographic images, remote sensor multispatial scanner data and others. Topics include transform techniques, recorders, discriminate function, and associated hardware.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 713 Computer Vision
3 cr. Graduate.
Fundamental issues and current research in computer vision. Topics in early or low-level vision, intermediate vision or perceptual organization, and high-level vision or object recognition.
Prerequisites: grad st; ElecEng 410(P) or cons instr.
Course Rules: Jointly offered w/ and counts as a repeat of CompSci 713.
Last Taught: Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 716 Tomography: Imaging and Image Reconstruction
3 cr. Graduate.
In-depth examination of the fundamentals of tomographic imaging and tomographic image reconstruction algorithms.
Prerequisites: grad st; ElecEng 410 (P) & ElecEng 420 (P)
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 717 Tomography: Image Quality and Artifact Correction
3 cr. Graduate.
In depth study of the factors affecting tomographic image quality. State-of-the-art techniques and practices for artifact correction.
Prerequisites: grad st; ElecEng 716 (P)
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 718 Nonlinear Control Systems
3 cr. Graduate.
Advanced concepts and methodologies in modeling and design of nonlinear control systems. Lyapunov theory; describing functions; variable structure control.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 718 & MechEng718 are jointly offered and count as repeats of one another. Not open for credit to students w/ cr in MechEng 778.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 721 Digital Communications
3 cr. Graduate.
Fundamentals of design and analysis of digital communication systems in the presence of noise; application of satellite, phone, and computer communication systems.
Prerequisites: grad st, ElecEng 421 or cons instr.
Last Taught: Spring 2011, Fall 2009, Fall 2007, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 733 Sensors and Systems
3 cr. Graduate.
Physical principles and working of sensors, interfacing, and sensor networks.
Prerequisites: grad st, ElecEng 305 or cons. instr.; Jointly offered with & counts as repeat of BME 733 & MechEng 733.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 737 Medical Imaging Signals and Systems
3 cr. Graduate.
Medical imaging physics; physical parameters of imaging systems; imaging system models; physical measurements; image reconstruction; image characteristics; biomedical applications.
Prerequisites: grad st; ElecEng 310(P) and Physics 210(P), or cons instr.
Last Taught: Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 741 Electromagnetic Fields and Waves
3 cr. Graduate.
Propagation, radiation and scattering of electromagnetic waves and their applications in electrical engineering.
Prerequisites: grad st; ElecEng 361 or equiv.
Last Taught: Fall 2019, Fall 2013, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 742 Electromagnetic Wave Theory
3 cr. Graduate.
Electromagnetics of layered media and open waveguides; surface waves, radiation modes, and plasmons; asymptotic methods; Dyadic green's functions; integral equation methods
Prerequisites: Grad st; ElecEng 361(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 755 Information and Coding Theory
3 cr. Graduate.
Information measures, entropy, source coding, shannon's theorems, channel capacity, error correcting codes, linear codes, convolutional codes, arithmetic codes, encoding and decoding algorithms.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 758 Advanced Computer Architecture
3 cr. Graduate.
Advanced topics in computer architecture including pipeline processing, multiple and parallel processing systems, performance enhancement issues and vlsi computing structures.
Prerequisites: grad st; CompSci 458 or ElecEng 458.
Course Rules: Not open for cr to students with cr in CompSci 758, which is identical to ElecEng 758.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 760 Computer Systems Performance Evaluation
3 cr. Graduate.
Performance measurement and tools, workload characterization, markov models, queueing theory, simulation, benchmarks, data analysis, parallel systems performance analysis.
Prerequisites: grad st; & CompSci 458(P) or ElecEng 458(P).
Course Rules: Not open to students who have cr in CompSci 760, which is the same as ElecEng 760.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 762 Fault-Tolerant Computing
3 cr. Graduate.
Faults in digital circuits, fault detection, fault location, system reconfiguration or repair, system recovery, design for testability, self-checking circuits, fault-tolerant interconnection networks, systems level fault-diagnosis, fault-tolerant software.
Prerequisites: grad st; ElecEng 354.
Course Rules: Not open to students with cr in CompSci 762, which is identical to ElecEng 762.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 765 Introduction to Fourier Optics and Optical Signal Processing
3 cr. Graduate.
Two dimensional linear systems, scalar diffraction theory, imaging properties of lenses, optical imaging systems, spatial filtering, wavefront reconstruction.
Prerequisites: grad st; ElecEng 310(P) & 361(P)
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 766 Introduction to Nonlinear Optics
3 cr. Graduate.
Characteristics and efficiency of various nonlinear optical processes that find applications in communications, signal processing and computing. Topics include optical switching devices, mixers and solitons.
Prerequisites: grad st; ElecEng 361(P).
Current Offerings: https://catalog.uwm.edu/course-search/
ELECENG 781 Advanced Synchronous Machinery
3 cr. Graduate.
Machine construction, direct and quadrature axis reactances, steady state performance, unbalanced operating conditions, transient performance, motor starting, standards.
Prerequisites: ElecEng 362.
Last Taught: Spring 2019, Fall 2017, Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 810 Advanced Digital Signal Processing
3 cr. Graduate.
Prediction and optimum filters; lattice structures; adaptive filters; deconvolution techniques, spectrum estimation, applications.
Prerequisites: grad st; ElecEng 410(P).
Last Taught: Spring 2015, Fall 2011, Spring 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 816 Optimal Control Theory
3 cr. Graduate.
Analysis and synthesis of discrete and continuous optimal control systems; linear quadratic regulators; dynamic programming and variational methods; applications.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 816 & MechEng 816 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 819 Adaptive Control Theory
3 cr. Graduate.
Adaptive control systems including mathematical foundations, estimation, model reference adaptive control, self tuning regulators, numerical methods, applications.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 819 & MechEng 819 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 872 Computer Analysis of Electric Power Systems
3 cr. Graduate.
Graph theory, matrix algebra and numerical analysis applied to computer solution of power system problems; mathematical models; algorithms and solution techniques for load flow and fault studies.
Prerequisites: grad st & ElecEng 471.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 890 Special Topics:
3 cr. Graduate.
Lectures on special topics in electrical engineering. Variable content course. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: https://catalog.uwm.edu/course-search/

ELECENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

Engineering and Applied Science (EAS)

EAS 1 Engineering Co-op Work Period
1 cr. Undergraduate.
One semester work period in an industrial environment.
Prerequisites: prior cons co-op dir.
Course Rules: Considered full time for FA purposes. Cr/No cr only. May be retaken but only 3 cr count toward graduation.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 100 CEAS Freshman Orientation
1 cr. Undergraduate.
An introduction to problem solving in engineering and computer science.
Prerequisites: none.
Course Rules: Credit/No Credit grading option only.
Last Taught: Fall 2019, Fall 2018, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
EAS 121 Automation: Controls and Sensors
4 cr. Undergraduate.
Industrial automation principles; controller technology and programming; controller applications and troubleshooting; network infrastructure technology; basic instrumentation technology.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 122 Motion Control and Safety
3 cr. Undergraduate.
AC drive and motor technology; visualization and information software; machine safety technology; motion control technology.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 200 Professional Seminar
1 cr. Undergraduate.
Professional orientation and career planning. Current issues in the profession.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 290 Topics in Engineering and Applied Science:
1-3 cr. Undergraduate.
Lectures on new introductory material in engineering and applied science. Variable-content course.
Prerequisites: specified in semester Schedule whenever required for topic.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 297 Study Abroad:
1-5 cr. Undergraduate.
Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.
Prerequisites: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.
Course Rules: May be retaken w/chg in topic to 12 cr max for undergrad & 9 cr max for grad.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 297G Study Abroad:
1-5 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.
Prerequisites: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.
Course Rules: May be retaken w/chg in topic to 12 cr max for undergrad & 9 cr max for grad.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 299 Independent Study
1-3 cr. Undergraduate.
Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.
Prerequisites: cons instr.
Course Rules: May be retaken for degree cr.
Current Offerings: https://catalog.uwm.edu/course-search/

EAS 350 Senior Leadership Seminar
1 cr. Undergraduate.
Elements of historical and modern social and professional leadership, preparing for a leadership position in industry, leadership and entrepreneurship, engineering management techniques.
Prerequisites: sr st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 90 Basic Writing
0 cr. Undergraduate.
Sustained writing and revision to develop fluency in articulating ideas and familiarity with writing conventions. Fourth instructional hr required.
Prerequisites: level 0 on English Placement Test.
Course Rules: May not be taken cr/no cr. Audit not allowed. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 95 Fundamentals of Composition
0 cr. Undergraduate.
Critical reading and writing, with an emphasis on the processes of writing and revision. Students produce a portfolio of revised essays.
Prerequisites: level 0 on English Placement Test.
Course Rules: May not be taken cr/no cr. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 100 Introduction to College Writing and Reading
4 cr. Undergraduate.
Critical reading and writing, with emphasis on the processes of writing, revision, and academic conventions. Students produce a portfolio of revised essays.
Prerequisites: level 1 on English Placement Test.
Course Rules: May not be taken cr/no cr. Not open to students who have taken ENGLISH 101.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 101 Introduction to College Writing
3 cr. Undergraduate.
Critical reading, writing, and revision, with an emphasis on reflective
inquiry and academic writing conventions. Students produce a portfolio
of revised essays.
Prerequisites: Level 2 on English Placement Test or grade of C or better in
English 095.
Course Rules: May not be taken cr/no cr. Not open to students who have
taken English 100. ESL 118 counts as a repeat of English 101.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 102 College Writing and Research
3 cr. Undergraduate.
Extensive engagement with academic research writing and reflective
analysis. Students will produce a portfolio of revised writing.
Prerequisites: level 3 on English Placement Test or grade of C or better in
English 100(P) or 101(P) or EAP 101(P) or 118(P).
Course Rules: May not be taken cr/no cr. Counts as repeat of English 112,
Honors 102, 112.
General Education Requirements: ENG, OWCA
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 105 College Writing Workshop
1 cr. Undergraduate.
Workshop on strategies for revising and editing college writing.
Prerequisites: grade of C or better in English 095(P) or Level 1 on English
Placement Test; conc reg in English 101(C).
Course Rules: Credit/no credit only.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 111 Entertainment Arts: Film, Television, and the Internet
3 cr. Undergraduate.
History of film, television, and the internet. Focus on economic and
aesthetic features of these media and interrelationships among them.
Models for critiquing each form.
Prerequisites: none
Course Rules: ArtHist 111, English 111, & FilmStd 111 are jointly offered;
they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials
from literature, history, and the media, with attention to African-, Asian-,
Hispanic-, and Native American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service
learning component.
General Education Requirements: CD, HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 192 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time
the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and
Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 201 Strategies for Academic Writing
3 cr. Undergraduate.
Intensive practice in expository writing designed to continue development
of already proficient writers.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on
EPT.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 202 Writing in the Humanities
3 cr. Undergraduate.
Development of styles and modes of literary and academic discourse in
response to essays and literary works touching on a common theme.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on
EPT.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 205 Business Writing
3 cr. Undergraduate.
Instruction and practice in writing business reports, memos, and letters.
Particularly appropriate for students in business and related areas.
Prerequisites: soph st; grade of C or better in English 102(P) or score at
level 4 on EPT.
Course Rules: May not be taken cr/no cr.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 206 Technical Writing
3 cr. Undergraduate.
Instruction and practice in writing technical reports, proposals, and other
technical writing forms. Particularly appropriate for students in science,
ingeering, architecture, and other applied sciences.
Prerequisites: satisfaction of GER English Composition competency
requirement.
Course Rules: May not be taken cr/no cr.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 207 Health Science Writing
3 cr. Undergraduate.
Instruction and practice in writing reports and research papers for health science professions. Particularly appropriate for students in health related fields, including pre-medical, dental, etc.
Prerequisites: satisfaction of GER English Composition competency req.
Course Rules: May not be taken cr/no cr.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 208 Writing and Research
3 cr. Undergraduate.
Extensive practice in gathering information, evaluating sources, interviewing, writing research papers, and bibliographical methods.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 209 Language in the United States
3 cr. Undergraduate.
Survey of the languages of the U.S., discussing social and political aspects of language use and issues of interethnic communication.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2012, Summer 2012, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 210 Global Englishes
3 cr. Undergraduate.
Varieties of English spoken around the world; history and spread of English; use of English as a national and international language.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 211 Aspects of the English Language:
3 cr. Undergraduate.
Introductory projects in such areas as social or specialized usages, modern grammars, dialects, English language history, theoretical and practical studies of language in literary forms.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 212 Grammar and Usage
3 cr. Undergraduate.
The basic concepts and categories of English grammar, with emphasis on usage and writing problems.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, & may be used to repeat, Classic 213, French 213, German 213, Italian 213, Linguistics 213, Polish 213, Russian 213, & Spanish 213.
Last Taught: Spring 2006, Fall 1997.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 214 Writing in the Professions:
3 cr. Undergraduate.
Adaptation of writing to situations and requirements of specific professional writing genres, such as criminal justice, government, and environmental writing.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic; no cr limit.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 215 Introduction to English Studies
3 cr. Undergraduate.
Writing-intensive introduction to multiple forms and contexts of literary and nonliterary texts and discourses in English, in a cultural, historical, and global framework.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: Required for English & secondary education English majors.
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 218 Veterans Re-Entry Writing Workshop
2 cr. Undergraduate.
Instruction in a combination of stress reduction and journaling techniques designed to ease readjustment to civilian life, tap into creative capacities, and boost writing skills.
Prerequisites: prior military service or cons instr.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 221 English Writers to 1800
3 cr. Undergraduate.
Works of English literature from Anglo-Saxon period through the eighteenth century. Combines close reading with study of historical and cultural context of literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 222 English Writers, 1800 to the Present
3 cr. Undergraduate.
Works of English literary tradition from the Romantics through the present. Combines close reading with study of historical and social context of literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 223 American Writers to 1900
3 cr. Undergraduate.
Works of American literature from colonial times through Whitman and Twain. Combines close reading with study of the historical and cultural context of literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: HU
Last Taught: Spring 2015, Fall 2011, Spring 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 224 American Writers: 1900 to the Present
3 cr. Undergraduate.
Works of American literature from late nineteenth century to the present. Combines close reading with study of the historical and cultural context of literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: HU
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 229 Introduction to Modern Literature:
3 cr. Undergraduate.
Works in the modern tradition from the 1910's to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max. With 'Backgrounds' subtitle, counts as a repeat of English 225; with 'Modern Developments' subtitle counts as a repeat of English 226.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 230 Writing with Style
3 cr. Undergraduate.
Students develop and enhance their expository writing style by reading short essay selections and writing in a variety of rhetorical forms, styles, and modes.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Last Taught: Spring 2014, Fall 2007, Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 233 Introduction to Creative Writing
3 cr. Undergraduate.
An introduction to the writing of poetry and fiction.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 234 Writing Fiction: Structure and Technique
3 cr. Undergraduate.
Readings and discussion demonstrating the basic structural and technical elements of modern fiction, with opportunities for practice.
Prerequisites: Satisfaction of OWC-A GER
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 235 Writing Poetry: Forms, Styles, Voices
3 cr. Undergraduate.
Readings and discussion demonstrating traditional and contemporary forms, with opportunities for practice.
Prerequisites: Satisfaction of OWC-A GER.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 236 Introductory Topics in Creative Writing:
3 cr. Undergraduate.
Instruction and practice in genres other than fiction and poetry.
Prerequisites: English 233(203)(P) or 234(P).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 240 Rhetoric, Writing, and Culture:
3 cr. Undergraduate.
Major concerns in cultural criticism, including race, gender, class, cultural identity, technology, and ideology; examines how rhetoric, writing, and media influence our thinking about these concerns.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU, OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 243 Introduction to Literature by Women:
3 cr. Undergraduate.
Ways in which women have expressed their views of women's roles and goals in literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2019, Fall 2014, Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 245 The Life, Times, and Work of a Literary Artist:
3 cr. Undergraduate.
A writer in a cultural, historical, and biographical context.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 247 Literature and Human Experience:
3 cr. Undergraduate.
Focus upon the portrayal of a universal theme in literature of the past and present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 248 Literature and Contemporary Life:
3 cr. Undergraduate.
Literary portrayal of the character issues and concerns of the contemporary world as reflected in literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 251 Fantasy in Literature:
3 cr. Undergraduate.
Forms of fantasy in literature from the medieval period to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 252 Mystery and Detective Fiction:
3 cr. Undergraduate.
Selected works of detective fiction by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 253 Science Fiction:
3 cr. Undergraduate.
Selected works of literary science fiction by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 260 Introduction to Poetry:
3 cr. Undergraduate.
Selected works of poetry by theme or type.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2013, Spring 2010, Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 261 Introduction to Short Stories:
3 cr. Undergraduate.
Selected short stories by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2013, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 262 Introduction to Drama:
3 cr. Undergraduate.
Selected plays of the English-speaking theater by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 263 Introduction to the Novel:
3 cr. Undergraduate.
Selected novels from the English-speaking world by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 264 Introduction to the Other Arts:
3 cr. Undergraduate.
Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 266 Introduction to Cultural Studies:
3 cr. Undergraduate.
Theories, subject matters, and core texts of the interdisciplinary field of cultural studies.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 267 Introduction to the Novel:
3 cr. Undergraduate.
Selected novels from the English-speaking world by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 268 Introduction to Cultural Studies:
3 cr. Undergraduate.
Theories, subject matters, and core texts of the interdisciplinary field of cultural studies.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 269 Literary Forms and Genres:
3 cr. Undergraduate.
A literary form or genre such as essay, satire, tragedy, etc.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 270 Literature and the Other Arts:
3 cr. Undergraduate.
Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 271 Literature and Human Experience:
3 cr. Undergraduate.
Focus upon the portrayal of a universal theme in literature of the past and present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 272 Literature and Contemporary Life:
3 cr. Undergraduate.
Literary portrayal of the character issues and concerns of the contemporary world as reflected in literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 274 Literature and the Other Arts:
3 cr. Undergraduate.
Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 275 The Forms of Folk Literature:
3 cr. Undergraduate.
Folk literature as a literary type with emphasis on varying ethnic groups.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2020, Fall 2019, Spring 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 276 Introduction to American Indian Literature:
3 cr. Undergraduate.
Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe or time period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 277 Introduction to Ethnic Minority Literature:
3 cr. Undergraduate.
A survey covering literature by three or more of the following ethnic groups: African American, American Indian, Asian American, U.S. Latino/a, and Caribbean American.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: CD, HU
Last Taught: Fall 2018, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 278 Introduction to World Literatures Written in English:
3 cr. Undergraduate.
The literature of a particular region or regions of the English-speaking world.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: CD, HU
Last Taught: Spring 2013, Spring 2012, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 279 Introduction to U.S. Latino/a Literature:
3 cr. Undergraduate.
Latino/a American literature with a focus on region, genre, theme, or period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to a 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 280 Introduction to Asian-American Literature:
3 cr. Undergraduate.
Asian-American literature with focus on region, genre, theme, or period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 281 Introduction to African-American Literature:
3 cr. Undergraduate.
African-American literature with a focus on region, genre, theme, or period.
Prerequisites: May be retaken w/chg in topic to 9 cr max. Prereq grad of C or better in English 102(P) or score at level 4 of EPT.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 285 Modern Irish Language and Literature in Translation
3 cr. Undergraduate.
Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: Celtic 285 & English 285 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 286 Writing about Film and Television
3 cr. Undergraduate.
Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: English 286 & FilmStd 286 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 289 Internship in English, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of English in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: satisfaction of GER English Composition competency req; 2.25 gpa; C or better in English 2101(P), 202(P), 205(P), 208(P), 233(P), 234(P), 236(P), 230(P), or 240(P), cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 290 Introduction to Film Studies
3 cr. Undergraduate.
Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking.
Prerequisites: none.
Course Rules: English 290 & FilmStd 290 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 291 Introduction to Television Studies
3 cr. Undergraduate.
The forms, images, and narratives particular to television.
Prerequisites: none.
Course Rules: English 291 & FilmStd 291 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 292 Classic Dramas in Film:
1 cr. Undergraduate.
A sampling of great plays in film versions, with performances by acclaimed actors.
Prerequisites: none.
Course Rules: Offered on a cr/no cr basis. May be retaken w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 293 Literature and Media:
3 cr. Undergraduate.
A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies.
Prerequisites: soph st.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 294 Game Culture
3 cr. Undergraduate.
Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.
Prerequisites: GER DWC-A.
Course Rules: Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 295 Women and Film
3 cr. Undergraduate.
A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture.
Prerequisites: soph st.
Course Rules: English 295 & FilmStd 295 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 298 Undergraduate Lower-Division Service Learning
1 cr. Undergraduate.
Faculty-supervised placement of students as community service volunteers.
Prerequisites: conc reg in English 100- or 200-level service learning course.
Course Rules: May be retaken to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 301 Survey of English Literature, Beginnings to 1500
3 cr. Undergraduate.
Writers and literary trends of the Old English and medieval period, with emphasis on their historical, social, and cultural context.
Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 302 Survey of English Literature, 1500-1660  
3 cr. Undergraduate.  
Writers and trends of the English literature in the period 1500-1660, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Course Rules:** Recom in prep for English 452, 453, 454 & 456.  
**Last Taught:** Fall 2018, Fall 2017, Fall 2016, Spring 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 303 Survey of English Literature, 1660-1798  
3 cr. Undergraduate.  
Writers and trends in English Literature, 1660-1798, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Fall 2019, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 304 Survey of English Literature, 1798-1900  
3 cr. Undergraduate.  
Writers and trends in English Literature, 1798-1900, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2020, Fall 2017, Fall 2015, Fall 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 305 Survey of English Literature: 1900 to the Present  
3 cr. Undergraduate.  
Writers and trends of English Literature since 1900, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Fall 2013.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 306 Survey of Irish Literature  
3 cr. Undergraduate.  
Irish literature from earliest times through the Literary Renaissance--folklore, saga, bardic poetry, poetry, fiction, and drama of the nineteenth century to the present.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 307 Survey of American Literature to 1865  
3 cr. Undergraduate.  
Writers and trends in American Literature before 1865, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2020, Spring 2019, Fall 2017, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 308 Survey of American Literature, 1865-1965  
3 cr. Undergraduate.  
Writers and trends of American Literature, 1865-1965, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2018, Fall 2014, Spring 2014, Fall 2011.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 309 Survey of Contemporary American Literature  
3 cr. Undergraduate.  
Writers and trends of American Literature after 1965, with emphasis on historical, social, and cultural context.  
**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.  
**Last Taught:** Spring 2019, Spring 2018, Fall 2017, Summer 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century  
3 cr. Undergraduate.  
Theories and practices of communicating about science and technology.  
**Prerequisites:** satisfaction of OWC-A GER or cons instr.  
**Course Rules:** Satisfies OWC-B GER.  
**General Education Requirements:** HU, OWCB  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 312 Topics in Film Studies:  
3 cr. Undergraduate.  
Study of stylistic, generic, historical, or theoretical issues in film studies.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 290(P).  
**Course Rules:** May be retaken w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another.  
**Last Taught:** Summer 2020, Spring 2020, Summer 2019, Spring 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 316 World Cinema:  
3 cr. Undergraduate.  
National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.  
**Prerequisites:** jr. st or English 290(P); satisfaction of OWC-A.  
**Course Rules:** Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

ENGLISH 320 Studies in Film Authorship:  
3 cr. Undergraduate.  
The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.  
**Prerequisites:** jr st or English 290(P); satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2015, Spring 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
ENGLISH 325 The Art of Fiction:
3 cr. Undergraduate/Graduate.
Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 325G The Art of Fiction:
3 cr. Undergraduate/Graduate.
Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 326 The Development of the Novel:
3 cr. Undergraduate/Graduate.
Major artistic, social and intellectual events in the history of the novel from its origins to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 326G The Development of the Novel:
3 cr. Undergraduate/Graduate.
Major artistic, social and intellectual events in the history of the novel from its origins to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 327 The Development of the Short Story
3 cr. Undergraduate/Graduate.
Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 327G The Development of the Short Story
3 cr. Undergraduate/Graduate.
Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 328 Forms of Experimental Literature:
3 cr. Undergraduate/Graduate.
Approaches to forms of literature that stress experimentation, innovation and the radical alteration of existing forms.
Prerequisites: jr st; satisfaction of GER Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 328G Forms of Experimental Literature:
3 cr. Undergraduate/Graduate.
Approaches to forms of literature that stress experimentation, innovation and the radical alteration of existing forms.
Prerequisites: jr st; satisfaction of GER Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 329 Film and Literature
3 cr. Undergraduate/Graduate.
Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.
Prerequisites: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.
Course Rules: English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 329G Film and Literature
3 cr. Undergraduate/Graduate.
Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.
Prerequisites: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.
Course Rules: English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 332 Gay and Lesbian Literature:
3 cr. Undergraduate.
Examines themes in modern literature about sexual identity and community.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 341 The Development of Drama:
3 cr. Undergraduate/Graduate.
A historical approach, with emphasis on new ideas in the theatre, new techniques, and the evolution of genres.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2006, Spring 1990.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 341G The Development of Drama:
3 cr. Undergraduate/Graduate.
A historical approach, with emphasis on new ideas in the theatre, new
styles, and the evolution of genres.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 342 Comedy:
3 cr. Undergraduate/Graduate.
Works from the comic tradition with focus on theme, genre, region, or
historical development.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 342G Comedy:
3 cr. Undergraduate/Graduate.
Works from the comic tradition with focus on theme, genre, region, or
historical development.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 344 Modern Drama:
3 cr. Undergraduate/Graduate.
Topics vary. American and English dramatists since 1920, with emphasis
on their stage approach, their use of language; and themes of illusion,
communication, and identity.
Prerequisites: jr st, satisfaction of GER English Competency req; 6 cr in
courses approved for hum distr cr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 344G Modern Drama:
3 cr. Undergraduate/Graduate.
Topics vary. American and English dramatists since 1920, with emphasis
on their stage approach, their use of language; and themes of illusion,
communication, and identity.
Prerequisites: jr st, satisfaction of GER English Competency req; 6 cr in
courses approved for hum distr cr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 343 Tragedy:
3 cr. Undergraduate/Graduate.
Works from the tragic tradition with focus on theme, genre, region, or
historical development.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2008, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 343G Tragedy:
3 cr. Undergraduate/Graduate.
Works from the tragic tradition with focus on theme, genre, region, or
historical development.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2008, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 341G The Development of Poetry:
3 cr. Undergraduate/Graduate.
A study of significant intellectual, artistic, or social events in the history
of poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 341 The Development of Poetry:
3 cr. Undergraduate/Graduate.
A study of significant intellectual, artistic, or social events in the history
of poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 341G The Development of Poetry:
3 cr. Undergraduate/Graduate.
A study of significant intellectual, artistic, or social events in the history
of poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 360 The Art of Poetry:
3 cr. Undergraduate/Graduate.
Inquiry into the art of poetry, with readings from a variety of poets.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 360G The Art of Poetry:
3 cr. Undergraduate/Graduate.
Inquiry into the art of poetry, with readings from a variety of poets.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 361 The Development of Poetry:
3 cr. Undergraduate/Graduate.
A study of significant intellectual, artistic, or social events in the history
of poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 361G The Development of Poetry:
3 cr. Undergraduate/Graduate.
A study of significant intellectual, artistic, or social events in the history
of poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 363 Medieval Epic and Romance
3 cr. Undergraduate/Graduate.
Study of the traditions of medieval English epic and romance through an
examination of representative medieval works.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 363G Medieval Epic and Romance
3 cr. Undergraduate/Graduate.
Study of the traditions of medieval English epic and romance through an examination of representative medieval works.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 366 Non-Fiction Prose:
3 cr. Undergraduate.
A form of non-fiction such as the essay, biography, etc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Last Taught: Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 370G Folk Literature:
3 cr. Undergraduate/Graduate.
A study of a particular form or forms of folk literature or the folk literature of a designated region or ethnic group.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 372 Survey of American Indian Literature
3 cr. Undergraduate.
A general, representative study of the literature of the American Indian.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: AIS 372 & English 372 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 373 Survey of Ethnic Minority Literature
3 cr. Undergraduate.
A general, representative study of the literature of two or more ethnic minority groups.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 374 Survey of U.S. Latino/a Literature
3 cr. Undergraduate.
A general, representative study of U.S. Latino/a literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: English 374 & Latino 374 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 375 Survey of Asian American Literature
3 cr. Undergraduate.
A general, representative study of Asian-American literature written since 1930.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 376 Survey of African-American Literature to 1930
3 cr. Undergraduate.
A general, representative study of African-American literature before 1930.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Last Taught: Fall 2011, UWinteriM 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 377 Survey of African-American Literature, 1930 to the Present
3 cr. Undergraduate.
A general, representative study of African-American literature written since 1930.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Last Taught: Fall 2019, Summer 2015, Summer 2014, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 378 Survey of Current Literary and Cultural Theory
3 cr. Undergraduate.
A general, representative study of current critical approaches to literary and cultural studies, including basic terminology and concrete application.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 380 Media and Society:
3 cr. Undergraduate/Graduate.
An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary.
Prerequisites: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 380G Media and Society
3 cr. Undergraduate/Graduate.
An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary.
Prerequisites: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 381 World Literatures Written in English
3 cr. Undergraduate.
A general, representative study of the literature of an area of the English-speaking world, e.g. Canada, Australia, etc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 383 Cinema and Genre
3 cr. Undergraduate/Graduate.
Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 383G Cinema and Genre
3 cr. Undergraduate/Graduate.
Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 390G Classical Film Criticism and Theory
3 cr. Undergraduate/Graduate.
Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P), & ArtHist 205(P); or cons instr.
Course Rules: English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 391 Television Criticism and Theory
3 cr. Undergraduate/Graduate.
Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.
Course Rules: English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 391G Television Criticism and Theory
3 cr. Undergraduate/Graduate.
Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.
Course Rules: English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 393 Entertainment Industries
3 cr. Undergraduate.
In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices.
Prerequisites: jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.
Course Rules: English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 394 Theories of Mass Culture
3 cr. Undergraduate/Graduate.
A survey of theories of mass culture relative to film from the late 19th century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 394G Theories of Mass Culture:
3 cr. Undergraduate/Graduate.
A survey of theories of mass culture relative to film from the late 19th century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 398 Undergraduate Upper-Division Service Learning
1 cr. Undergraduate.
Faculty-supervised placement of students as community service volunteers.
Prerequisites: conc reg in English 300-level or above service learning course.
Course Rules: May be retaken to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 400 Introduction to English Linguistics
3 cr. Undergraduate/Graduate.
Application of linguistic theory and techniques to modern English.
English/Linguis 400 required of all English majors and minors in School of Education.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Jointly-offered with & counts as repeat of Linguis 400.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 400G Introduction to English Linguistics
3 cr. Undergraduate/Graduate.
Application of linguistic theory and techniques to modern English.
English/Linguis 400 required of all English majors and minors in School of Education.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Jointly-offered with & counts as repeat of Linguis 400.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 401 History of the English Language
3 cr. Undergraduate/Graduate.
The origins of the English language and its changing structure.
Prerequisites: jr st; satisfaction of GER English Composition Competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 401G History of the English Language
3 cr. Undergraduate/Graduate.
The origins of the English language and its changing structure.
Prerequisites: jr st; satisfaction of GER English Composition Competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 402 Theories of Language and Literature:
3 cr. Undergraduate/Graduate.
Various topics involving some theoretical aspect(s) of language and literature.
Prerequisites: jr st, satisfaction of GER English Composition competency req; an intro course in linguis (e.g. English/Linguis 400, English 401, or Linguis 350).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 402G Theories of Language and Literature:
3 cr. Undergraduate/Graduate.
Various topics involving some theoretical aspect(s) of language and literature.
Prerequisites: jr st, satisfaction of GER English Composition competency req; an intro course in linguis (e.g. English/Linguis 400, English 401, or Linguis 350).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 403 Survey of Modern English Grammar
3 cr. Undergraduate/Graduate.
Studies in elements of grammar, noun and verb phrase, clause and sentence connection, and complex noun phrase.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 403G Survey of Modern English Grammar
3 cr. Undergraduate/Graduate.
Studies in elements of grammar, noun and verb phrase, clause and sentence connection, and complex noun phrase.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 404 Language, Power, and Identity
3 cr. Undergraduate/Graduate.
The use of distinctive language varieties to construct identity and maintain power relations within a society.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 404G Language, Power, and Identity
3 cr. Undergraduate/Graduate.
The use of distinctive language varieties to construct identity and maintain power relations within a society.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 406 Advanced English Grammar
3 cr. Undergraduate/Graduate.
Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 403(P).
Course Rules: English 406 & Linguis 406 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 406G Advanced English Grammar
3 cr. Undergraduate/Graduate.
Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 403(P).
Course Rules: English 406 & Linguis 406 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 414 Special Topics in Creative Writing:
3 cr. Undergraduate/Graduate.
Readings, discussion and assigned writing in specialized areas of creative writing.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(P), 234(P), 235(P), or 236(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max. May not be retaken for major cr. Students may not enroll concurrently in a second section of English 414 or in English 415, 416, 615, or 616.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 414G Special Topics in Creative Writing:
3 cr. Undergraduate/Graduate.
Readings, discussion and assigned writing in specialized areas of creative writing.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(P), 234(P), 235(P), or 236(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max. May not be retaken for major cr. Students may not enroll concurrently in a second section of English 414 or in English 415, 416, 615, or 616.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 415 Fiction Workshop
3 cr. Undergraduate.
Classroom analysis and discussion of student writing. Content varies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(P) or 234(P).
Course Rules: May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 415 or in English 414, 416, 615, or 616.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 416 Poetry Workshop
3 cr. Undergraduate.
Classroom analysis and discussion of student poetry. Content varies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(P) or 235(P).
Course Rules: May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 416 or in English 414, 415, 615, or 616.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 417 Readings for Writers:
3 cr. Undergraduate.
A literature course exploring literary traditions, formal or aesthetic problems of interest to creative writers.
Prerequisites: jr st; satisfaction of OWC-A; English 233(P), 234(P), 235(P), or 236(P).
Course Rules: Counts as repeat of English 414 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 418 Literary Journal Production
3 cr. Undergraduate.
Develop a working understanding of the editorial, design, production, and promotional processes at the heart of successful literary and arts journals.
Prerequisites: jr st; English 205(P).
Course Rules: Not open to students w/cr in English 430(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 425 Advanced Business Writing
3 cr. Undergraduate.
Advanced strategies in business writing. Special focus on primary research, rhetorical and contextual analysis, problem-solving, collaboration, and persuasive writing.
Prerequisites: jr st; English 205(P).
Course Rules: Not open to students w/cr in English 430(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 426 Professional and Technical Communications Research
3 cr. Undergraduate.
Research (e.g., observations, interviews, surveys, focus groups, card-sorting, usability testing) used by workplace communicators to resolve problems and ensure production of quality, user-based documentation products.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 427 Writing for Nonprofits
3 cr. Undergraduate/Graduate.
Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in ENGLISH 431 w/same topic.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 427G Writing for Nonprofits
3 cr. Undergraduate/Graduate.
Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning.
Prerequisites: jr st. No cr for students w/cr in English 431 w/same topic.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 428 Strategic Writing for Organizations
3 cr. Undergraduate.
Analysis and creation of written responses to a wide variety of organization issues, exigencies, and crises.
Prerequisites: junior standing; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 429 Technical Communications and Professional Leadership
3 cr. Undergraduate.
Technical writing and communication concepts for understanding leadership and problem-solving in organizations.
Prerequisites: junior standing; satisfaction of GER English Composition competency requirement.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 430 Advanced Writing Workshop
3 cr. Undergraduate/Graduate.
A tutorial course in advanced exposition. Individual assignments and conferences. Enrollment limited to 12 students.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 430G Advanced Writing Workshop
3 cr. Undergraduate/Graduate.
A tutorial course in advanced exposition. Individual assignments and conferences. Enrollment limited to 12 students.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 431 Topics in Advanced Communications:
3 cr. Undergraduate/Graduate.
Seminar in the history, theory, or practice of professional, technical, medical, or science communications.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 431G Topics in Advanced Communications:
3 cr. Undergraduate/Graduate.
Seminar in the history, theory, or practice of professional, technical, medical, or science communications.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 432 The Rhetoric of Argument
3 cr. Undergraduate.
Analytical survey of rhetorical methods and forms in argumentative discourse, the role of audience in argumentation, and 'fields' of argument.
Prerequisites: jr st; satisfaction of GER English Composition competency req; grade of C or better in English 102(P), 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), or 240(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 433 Creative Nonfiction for Publication
3 cr. Undergraduate/Graduate.
Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 433G Creative Nonfiction for Publication
3 cr. Undergraduate/Graduate.
Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 434 Editing and Publishing
3 cr. Undergraduate/Graduate.
Training and practice in editorial procedures; preparation of fiction/ nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P), 240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 434G Editing and Publishing
3 cr. Undergraduate/Graduate.
Training and practice in editorial procedures; preparation of fiction/ nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P), 240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 435 Rhetoric and Professional Writing
3 cr. Undergraduate.
Theories and practices of rhetoric and professional writing with attention to business, technical, and community contexts.
Prerequisites: English 205(P), 206(P), 207(P), or 310(P) or cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 436 Technical Documentation
3 cr. Undergraduate/Graduate.
Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics.
Prerequisites: jr st; English 206(P) & 435(P) or cons instr.
Last Taught: Fall 2018, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 436G Technical Documentation
3 cr. Undergraduate/Graduate.
Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics.
Prerequisites: jr st; English 206(P) & 435(P) or cons instr.
Last Taught: Fall 2018, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 437 Project Management for Professional Writers
3 cr. Undergraduate/Graduate.
Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and revision.
Prerequisites: junior standing; satisfaction of GER English Composition competency requirement; English 205(P), 206(P), or consent of instructor.
Course Rules: Counts as repeat of English 437X.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 438 Advanced Research Writing
3 cr. Undergraduate/Graduate.
Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process.
Prerequisites: jr st; English 208(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 438G Advanced Research Writing
3 cr. Undergraduate/Graduate.
Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process.
Prerequisites: jr st; English 208(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 439 Information Design
3 cr. Undergraduate/Graduate.
Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication.
Prerequisites: junior standing; English 205(P), 206(P), or 207(P), or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 439X Information Design
3 cr. Undergraduate/Graduate.
Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication.
Prerequisites: junior standing; English 205(P), 206(P), or 207(P), or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 440 Introduction to Peer Tutoring and Practice
3 cr. Undergraduate/Graduate.
Students explore their own writing practices in light of rhetorical theory and learn to tutor others.
Prerequisites: jr st; satisfaction of English Composition competency req, & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 440G Introduction to Peer Tutoring and Practice
3 cr. Undergraduate/Graduate.
Students explore their own writing practices in light of rhetorical theory and learn to tutor others.
Prerequisites: jr st; satisfaction of English Composition competency req, & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 441 Advanced Peer Tutoring Theory and Practice
3 cr. Undergraduate/Graduate.
Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research.
Prerequisites: English 440(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 441G Advanced Peer Tutoring Theory and Practice
3 cr. Undergraduate/Graduate.
Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research.
Prerequisites: English 440(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 442 Writing Center Tutoring Practicum
1 cr. Undergraduate/Graduate.
For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM’s Writing Center.
Prerequisites: jr st; cons instr.
Last Taught: Fall 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 442G Writing Center Tutoring Practicum
1 cr. Undergraduate/Graduate.
For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM’s Writing Center.
Prerequisites: jr st; cons instr.
Last Taught: Fall 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 443 Grant Writing
3 cr. Undergraduate/Graduate.
Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantseeking.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Counts as repeat of English 431 w/same topic. Req’d service learning component.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 443G Grant Writing
3 cr. Undergraduate/Graduate.
Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantseeking.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Counts as repeat of English 431 w/same topic. Req’d service learning component.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 444 Technical Editing
3 cr. Undergraduate/Graduate.
Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Counts as repeat of English 431 w/same topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 444G Technical Editing
3 cr. Undergraduate/Graduate.
Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Counts as repeat of English 431 w/same topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 445G The Composing Process:
3 cr. Undergraduate/Graduate.
Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning.
Prerequisites: jr st, satisfaction of GER English Composition competency req, or cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max for undergrads or 6 cr max for grads.
Last Taught: Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 445G The Composing Process:
3 cr. Undergraduate/Graduate.
Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning.
Prerequisites: jr st, satisfaction of GER English Composition competency req, or cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max for undergrads or 6 cr max for grads.
Last Taught: Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 446 Global Business Communications
3 cr. Undergraduate.
Instruction and practice in business writing in the global context. Particularly appropriate for students in business and international studies.
Prerequisites: jr st; Satisfaction of OWC-A.
Course Rules: May not be taken cr/no cr. Counts as repeat of English 214 or 431 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 448 Technical Communications Theory and Practice
3 cr. Undergraduate.
Orientation to the technical communications field through service learning experience in which students write for organizations. Application of technical communications theory to practice.
Prerequisites: jr st; completion of GER English Composition competency req; conc reg in English 398(C).
Course Rules: Service Learning course.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 449 Internship in the Humanities
1-4 cr. Undergraduate.
Experience in a professional setting that enables students to apply course work and skills and to gain experience toward career goals.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken to 9 cr. max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 451 Chaucer
3 cr. Undergraduate/Graduate.
Linguistic and intellectual traditions exemplified in Chaucer’s poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 452 Shakespeare
3 cr. Undergraduate/Graduate.
Works representing Shakespeare’s career, selected from comedies, tragedies, histories, and poems.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be used as a repeat of 453 for students who have not taken English 452 previously.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 452G Shakespeare
3 cr. Undergraduate/Graduate.
Works representing Shakespeare’s career, selected from comedies, tragedies, histories, and poems.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be used as a repeat of 453 for students who have not taken English 452 previously.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 454 Milton
3 cr. Undergraduate/Graduate.
Milton’s English poetry and selections from his prose.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 454G Milton
3 cr. Undergraduate/Graduate.
Milton’s English poetry and selections from his prose.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 456G Writers in English Literature, 1500-1660:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Summer 2009, Spring 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 457G Writers in English Literature, 1660-1798:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 457 Writers in English Literature, 1660-1798:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 458 Writers in Drama:
3 cr. Undergraduate/Graduate.
A significant dramatist or a combination of playwrights.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 455G Writers in Drama:
3 cr. Undergraduate/Graduate.
A significant dramatist or a combination of playwrights.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 458G Writers in English Literature, 1798-1900:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 459G Writers in English Literature, 1900 to the Present:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 460G Writers in American Literature, 1500-1900:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 461G Writers in American Literature, 1900 to the Present:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 463G Writers in African-American Literature:
3 cr. Undergraduate/Graduate.
A significant figure or figures in African-American literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: CD
Last Taught: Spring 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 465 Women Writers:
3 cr. Undergraduate/Graduate.
One or more significant women writers.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; satisfaction of GER English Composition competency req, add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 500G Studies in Medieval and Early Modern Literature:
3 cr. Undergraduate/Graduate.
Major genres, themes, and figures of the Middle Ages through a reading of representative works.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 500 Studies in Medieval and Early Modern Literature:
3 cr. Undergraduate/Graduate.
Major genres, themes, and figures of the Middle Ages through a reading of representative works.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 501G Studies in Literature, 1500-1660:
3 cr. Undergraduate/Graduate.
Critical study of major genres, themes, figures, tenets, aspects, influences and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 501 Studies in Literature, 1500-1660:
3 cr. Undergraduate/Graduate.
Critical study of major genres, themes, figures, tenets, aspects, influences and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 504G Studies in Literature, 1660-1800:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 504 Studies in Literature, 1660-1800:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 505G Studies in Literature, 1800-1900:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 505 Studies in Literature, 1800-1900:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 507G Studies in Literature, 1900 to the Present:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 507 Studies in Literature, 1900 to the Present:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 514 Literature in Context:
3 cr. Undergraduate.
Critical study of literary works in philosophical, social, scientific, or theological context.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 515 Literature and the Other Arts:
3 cr. Undergraduate/Graduate.
Critical study of literary works in combination with works from the other arts.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 515G Literature and the Other Arts:
3 cr. Undergraduate/Graduate.
Critical study of literary works in combination with works from the other arts.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Last Taught: Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 517 Studies in African-American Literature:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in African-American literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: CD
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 517G Studies in African-American Literature:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in African-American literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: CD
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 518 Studies in Irish Literature:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in Irish literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 518G Studies in Irish Literature:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in Irish literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 520 Studies in American Indian Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in American Indian literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg of topic to 9 cr max.
General Education Requirements: CD
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 521 Studies in Ethnic Minority Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in ethnic-American literature
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 522 Studies in World Literature Written in English:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in the literature of a particular region of the English-speaking world.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Last Taught: Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 523 Studies in U.S. Latino/a Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in U.S. Latino/a literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 524 Studies in Asian-American Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in Asian-American literature
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 525 American Indian Literature, Culture, and Creative Arts
3 cr. Undergraduate/Graduate.
Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: AIS 525 & English 525 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 525G American Indian Literature, Culture, and Creative Arts
3 cr. Undergraduate/Graduate.
Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 530 Studies in Shakespeare:
3 cr. Undergraduate.
An examination of a particular aspect of Shakespeare's literary and dramatic achievements, this course will focus on a specific genre, technique or prevailing theme.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 545 Studies in the History of Literary Criticism:
3 cr. Undergraduate.
Topics, trends, or approaches in theory and criticism.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 547 Studies in Theory and Criticism:
3 cr. Undergraduate/Graduate.
Topics, trends, or approaches in theory and criticism.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 547G Studies in Theory and Criticism:
3 cr. Undergraduate/Graduate.
Topics, trends, or approaches in theory and criticism.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 565 Introduction to Adult/University Level TESOL
3 cr. Undergraduate/Graduate.
Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Jointly-offered w/& counts as repeat of Linguis 565(426).
Does not satisfy requirements in School of Educ.
Last Taught: Fall 2018, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 565G Introduction to Adult/University Level TESOL
3 cr. Undergraduate/Graduate.
Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Jointly-offered w/& counts as repeat of Linguis 565(426).
Does not satisfy requirements in School of Educ.
Last Taught: Fall 2018, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 567 Materials for ESL Instruction
3 cr. Undergraduate/Graduate.
Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 567 & Linguis 567 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 567G Materials for ESL Instruction
3 cr. Undergraduate/Graduate.
Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 567 & Linguis 567 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 569 Practicum in Adult/University TESOL
3 cr. Undergraduate/Graduate.
A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 569 & Linguis 569 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2013, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 569G Practicum in Adult/University TESOL
3 cr. Undergraduate/Graduate.
A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 569 & Linguis 569 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2013, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 611 The Writer and the Current Literary Scene
3 cr. Undergraduate/Graduate.
Recent developments in the theory and techniques of contemporary fiction or nonfiction. Especially designed for creative writing students.
Prerequisites: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.
Last Taught: Fall 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 611G The Writer and the Current Literary Scene
3 cr. Undergraduate/Graduate.
Recent developments in the theory and techniques of contemporary fiction or nonfiction. Especially designed for creative writing students.
Prerequisites: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.
Last Taught: Fall 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 612 Poetry and the Creative Process
3 cr. Undergraduate/Graduate.
The origin and development of poetic ideas and techniques. Designed especially for creative writing students.
Prerequisites: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.
Last Taught: Fall 2017, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 612G Poetry and the Creative Process
3 cr. Undergraduate/Graduate.
The origin and development of poetic ideas and techniques. Designed especially for creative writing students.
Prerequisites: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.
Last Taught: Fall 2017, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 615 Advanced Workshop in Fiction
3 cr. Undergraduate/Graduate.
Intensive workshop critiques of student writing. Content varies.
Prerequisites: sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 616 Advanced Workshop in Poetry
3 cr. Undergraduate/Graduate.
Intensive workshop critiques of student writing. Content varies.
Prerequisites: senior standing, 3 cr in ENGLISH 416(P), one of second section of ENGLISH 416(P), ENGLISH 414(P) or ENGLISH 415(P), and consent of instructor based on writing sample; or graduate standing.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 615G Advanced Workshop in Fiction
3 cr. Undergraduate/Graduate.
Intensive workshop critiques of student writing. Content varies.
Prerequisites: sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 611G Advanced Workshop in Poetry
3 cr. Undergraduate/Graduate.
Intensive workshop critiques of student writing. Content varies.
Prerequisites: senior standing, 3 cr in ENGLISH 416(P), one of second section of ENGLISH 416(P), ENGLISH 414(P) or ENGLISH 415(P), and consent of instructor based on writing sample; or graduate standing.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 620 Seminar in the Art of Literature
3 cr. Undergraduate/Graduate.
Intensive study of a literary form or genre, or selected works from varying genres, with emphasis on elements of invention, innovation and craft.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2010, Spring 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 620G Seminar in the Art of Literature
3 cr. Undergraduate/Graduate.
Intensive study of a literary form or genre, or selected works from varying genres, with emphasis on elements of invention, innovation and craft.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2010, Spring 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 621 Seminar in the Literature of England
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of English literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 621G Seminar in the Literature of England:
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of English literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req; 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 622 Seminar in Irish Literature:
3 cr. Undergraduate/Graduate.
Specific themes, critical or aesthetic issues, or generic development, in one or more periods of Irish literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 622G Seminar in Irish Literature:
3 cr. Undergraduate/Graduate.
Specific themes, critical or aesthetic issues, or generic development, in one or more periods of Irish literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 623 Seminar in American Literature:
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of American literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 623G Seminar in American Literature:
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of American literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 624 Seminar in Modern Literature:
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or significant innovations in modern literature, viewed in a cross-cultural or contemporary context.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 624G Seminar in Modern Literature:
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or significant innovations in modern literature, viewed in a cross-cultural or contemporary context.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 625 Seminar in Literary History:
3 cr. Undergraduate/Graduate.
An intensive study of literature within its historical dimension, stressing the goals and methods of historical criticism and research in connection with specific periods, topics or traditions.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 625G Seminar in Literary History:
3 cr. Undergraduate/Graduate.
An intensive study of literature within its historical dimension, stressing the goals and methods of historical criticism and research in connection with specific periods, topics or traditions.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 626 Seminar in Critical Theory:
3 cr. Undergraduate/Graduate.
An investigation into one or more critical theories and their contribution to the study of literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 626G Seminar in Critical Theory:
3 cr. Undergraduate/Graduate.
An investigation into one or more critical theories and their contribution to the study of literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 627 Seminar in Literature and Culture:
3 cr. Undergraduate/Graduate.
Intensive study of literature within its cultural context, stressing goals and methods of cultural criticism and research in connection with specific issues or topics.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 627G Seminar in Literature and Culture:
3 cr. Undergraduate/Graduate.
Intensive study of literature within its cultural context, stressing goals and methods of cultural criticism and research in connection with specific issues or topics.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 628 Seminar in Literature by Women:
3 cr. Undergraduate/Graduate.
Focus on major writers or themes, or on a body of work that represents a variety of perspectives on gender issues.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 628G Seminar in Literature by Women:
3 cr. Undergraduate/Graduate.
Focus on major writers or themes, or on a body of work that represents a variety of perspectives on gender issues.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 629 Seminar in Literature and Sexuality:
3 cr. Undergraduate/Graduate.
Intensive study of the relationship between literature and human sexuality, focusing on particular periods, topics, or critical and aesthetic issues.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 629G Seminar in Literature and Sexuality:
3 cr. Undergraduate/Graduate.
Intensive study of the relationship between literature and human sexuality, focusing on particular periods, topics, or critical and aesthetic issues.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 630 Seminar in Literature and the Other Arts:
3 cr. Undergraduate/Graduate.
Selections from literature in connection with works from the other arts ranging from the Middle Ages to the present, stressing the importance of an inter-arts perspective.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 630G Seminar in Literature and the Other Arts:
3 cr. Undergraduate/Graduate.
Selections from literature in connection with works from the other arts ranging from the Middle Ages to the present, stressing the importance of an inter-arts perspective.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 631 Seminar in African-American Literature:
3 cr. Undergraduate/Graduate.
Focus upon major writers or themes, or on a body of work that represents a variety of perspectives on African-American experience.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English &/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 631G Seminar in African-American Literature:
3 cr. Undergraduate/Graduate.
Focus upon major writers or themes, or on a body of work that represents a variety of perspectives on African-American experience.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 632 Seminar in American Indian Literature:
3 cr. Undergraduate/Graduate.
Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 632G Seminar in American Indian Literature:
3 cr. Undergraduate/Graduate.
Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 633 Seminar in Rhetoric and Professional Writing:
3 cr. Undergraduate/Graduate.
Examination of a topic in rhetorical theory and its intersections with related fields such as cultural studies, professional writing, literacy theory, or composition studies.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Satisfies L&S Seminar requirement.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 633G Seminar in Rhetoric and Professional Writing:
3 cr. Undergraduate/Graduate.
Examination of a topic in rhetorical theory and its intersections with related fields such as cultural studies, professional writing, literacy theory, or composition studies.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Satisfies L&S Seminar requirement.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 634 Seminar in English Language Studies:
3 cr. Undergraduate/Graduate.
Examination of a topic in the study of the English language, providing an opportunity to investigate an issue in language studies in depth.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 634G Seminar in English Language Studies:
3 cr. Undergraduate/Graduate.
Examination of a topic in the study of the English language, providing an opportunity to investigate an issue in language studies in depth.
Prerequisites: sr st; satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 685 Honors Seminar:
3 cr. Undergraduate.
Investigation in depth of a period, figure, theme, or genre in English or American literature.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of an English faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult assistant chair/undergraduate program coord.
Prerequisites: jr st; satisfaction of GER English Composition competency requirement; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 700 Teaching Writing Practicum
1 cr. Graduate.
One-hour weekly practicum for new GTAs teaching first-year composition.
Prerequisites: grad st; cons instr
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 701 Writing Pedagogies
3 cr. Graduate.
Theories and practices of college composition pedagogy.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 702 English Graduate Institute
3 cr. Graduate.
A multisection modular summer course in three tracks: literature, english
language, and composition. Six three-week sections are offered.
Prerequisites: grad st.
Course Rules: Students may enrol for a max of 2 sections each summer. Retakable w/chg in topic to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 703 Introduction to Graduate Studies in Literature
1 cr. Graduate.
Orientation to best practices, scholarly work, and current debates in
primary fields of research in the discipline of literature and cultural theory.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 704 Teaching Creative Writing
3 cr. Graduate.
Approaches to the teaching of creative writing at elementary, high school
or college levels.
Prerequisites: grad st.
Course Rules: Consult instr to determine emphasis & range.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 705 Public Rhetorics and Community Engagement Colloquium
1 cr. Graduate.
Colloquium in public rhetorics, professional writing, and community
engagement. Investigation of disciplinary foundations and professional
concerns in public rhetorics, professional writing, and community
engagement.
Prerequisites: grad st or cons instr.
Course Rules: Retakable.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 706 Seminar in Professional Writing Theory and Pedagogy
3 cr. Graduate.
Theory and application of various approaches to teaching technical and
business writing on the college and university level.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2014, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 707 Writing for Business Management
2-3 cr. Graduate.
Theory and practice of business writing: advanced techniques of
audience analysis, organization, persuasion, and revision for clarity, in
writing reports, memos, letters, and journal articles.
Prerequisites: grad st in school of business administration or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 708 Advanced Professional Writing
3 cr. Graduate.
Seminar on the theory and development of students' professional
approaches to writing, research on professional writing genres, and
intensive analysis and editorial revisions of documents.
Prerequisites: grad st.
Course Rules: Not open to students with grad cr in English 435(ER).
Last Taught: Fall 2018, Spring 2010, Fall 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 709 Rhetoric, Writing, and Information Technology
3 cr. Graduate.
Seminar on theory and research concerning audiences and information
architecture for on-line discourse, instructional design, e-learning,
documentation systems, hypertext, mark-up languages, cultural factors,
and Web site development.
Prerequisites: grad st.
Course Rules: Not open to students with grad cr in English 436(ER).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 710 Advanced Project Management for Professional Writers
3 cr. Graduate.
Seminar on the theoretical issues, empirical findings, and advanced
strategies for project management; research, task analysis, planning,
collaboration, problem solving, document design, usability testing and
quality evaluation.
Prerequisites: grad st.
Course Rules: Not open to students w/ grad cr in English 437(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 711 Topics in Public and Professional Writing:
3 cr. Graduate.
Special topics seminar in the history, theory, pedagogy, or practice of
writing. Special focus on public and workplace literacy.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 712 Theories in Public Rhetorics and Community Engagement
3 cr. Graduate.
Seminar on the major theoretical perspectives influencing the field of
public rhetorics and community engagement.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2015, Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 713 Research Methods in Rhetorics, Literacies, and Community
Engagement
3 cr. Graduate.
Seminar on the issues and practice of qualitative research as it applies to
areas of inquiry related to rhetoric, writing and literacy.
Prerequisites: grad st.
Last Taught: Spring 2019, Spring 2017, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 714 Usability Studies
3 cr. Graduate.
Seminar on history and theory of usability studies and advanced practice
in usability assessment and testing.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 715 Narrative Craft and Theory:
3 cr. Graduate.
Analysis of selected prose narratives with emphasis on technical, generic,
and aesthetic features.
Prerequisites: grad st or cons coord of Creative Writing.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 716 Poetic Craft and Theory
3 cr. Graduate.
Analysis of selected poems with emphasis on technical, generic, and aesthetic features.
Prerequisites: grad st or cons coord of creative writing.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 718 Directed Writing in Poetry
3 cr. Graduate.
Advanced tutorials with seminar component. Content varies.
Prerequisites: grad st & cons instr.
Course Rules: Register with listed instructor(s) only. May be retaken up to 6 cr.
Last Taught: Fall 2007, Fall 2001, Fall 1999, Fall 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 720 Modern Literary Theory
3 cr. Graduate.
A graduate-level introduction to the major critical and theoretical perspectives of the 20th century.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 737 Literature and Aesthetics
3 cr. Graduate.
A graduate-level introduction to the major aesthetic philosophies and theories of the western tradition, with emphasis on their relevance to modern criticism and theory.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 738 Theories of Language, Literature, or Composition
3 cr. Graduate.
Introduction to scholarship in theoretical or methodological approaches to language, literature, or composition.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 740 Approaches to the Modern I
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.
Prerequisites: grad st.
Course Rules: English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Fall 2013, Fall 2011, Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 741 Approaches to the Modern II
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.
Prerequisites: grad st.
Course Rules: English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 742 Media Culture
3 cr. Graduate.
A graduate level introduction to media culture, with an emphasis on forms and theories of media culture from the mid-19th century to the present.
Prerequisites: grad st.
Course Rules: English 742 & FilmStd 742 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2017, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 743 Film Studies:
3 cr. Graduate.
A graduate-level introduction to film studies, including methods of film analysis and approaches to the history of film.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 743 & FilmStd 743 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2019, Fall 2016, Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 749 Advanced Internship in Writing and Community Engagement
1-4 cr. Graduate.
Practicum in writing and community engagement enabling students to develop new skills and credentials while learning how best to test theory through practice and apply theory to practice.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 750 History of Rhetoric and Writing Studies
3 cr. Graduate.
Background in historic rhetorical traditions and critical commentary on those traditions.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2016, Spring 2014, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 751 History of Rhetoric II:
3 cr. Graduate.
Study of central themes, concepts, and issues after the classical period.
Prerequisites: grad st; English 750(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 752 Essay as Genre
3 cr. Graduate.
A study of the tradition of the essay in England and America and its relation to rhetoric and composition.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 753 Contemporary Rhetorical Theory
3 cr. Graduate.
Survey of rhetorical theory in contemporary scholarship, criticism, and research, with special emphasis on the development of rhetorical concepts and composition studies.
Prerequisites: grad st; English 750(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 754 Post-Secondary Composition-Topics in Pedagogical Theory:
3 cr. Graduate.
Topics in pedagogical theory applicable to teaching post-secondary composition, such as the composing process, discourse, analysis, literacy, or writing assessment.
Prerequisites: grad st & English 701(P), or equiv post-secondary teaching experience, or cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2010, Fall 2007, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 755 Issues in Writing Research
3 cr. Graduate.
Analysis of major issues in rhetoric and writing within historical and theoretical contexts.
Prerequisites: grad st.
Last Taught: Spring 2017, Fall 2010, Fall 2007, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 758 Writing Workshop in Rhetoric and Composition
3 cr. Graduate.
Graduate-level course on writing and the critique of writing practice.
Prerequisites: grad st.
Last Taught: Spring 2016, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 761 Discourse Analysis
3 cr. Graduate.
A graduate-level introduction to the formal analysis of discourse.
Prerequisites: grad st; English 403(P) or Linguis 464(P) or equiv.
Last Taught: Fall 2014, Spring 2013, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 764 Sociolinguistics
3 cr. Graduate.
A graduate-level investigation of selected topics in sociolinguistic theory and method.
Prerequisites: grad st.
Last Taught: Spring 2016, Spring 2014, Fall 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 768 Linguistic Perspectives on Literature
3 cr. Graduate.
A survey of linguistic theory and technique relevant to the study of literature. The relation between linguistic theory, semiotics, and literary theory.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 769 Topics in Linguistics:
3 cr. Graduate.
Advanced-level study of a topic relevant to linguistics; may be contemporary or historical.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 769 & Linguis 769 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 771 Literature of the English Renaissance:
3 cr. Graduate.
Introduction to the literature of the english renaissance, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 772 Restoration and Eighteenth-Century Literature:
3 cr. Graduate.
Introduction to English literature, 1660-1800, and related scholarship, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Spring 2015, Fall 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 774 Literature in Victorian England:
3 cr. Graduate.
Introduction to English literature, 1837-1901, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2008, Fall 1997, Fall 1991.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 775 Modern English Literature:
3 cr. Graduate.
Introduction to English literature of the 20th century, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 776 Women Writers:
3 cr. Graduate.
A course focusing on the major women writers of a period or genre, or in relation to specified themes.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 777 American Literature to 1830:
3 cr. Graduate.
Introduction to American literature to 1830, with related scholarship, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 778 Native American Literature:
3 cr. Graduate.
Introduction to the literature of the american indian, emphasizing critical approaches and relevant scholarship.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 779 American Literature, 1830-1900: 3 cr. Graduate. 
Introduction to American literature from 1830-1900, emphasizing current critical issues. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 780 African American Literature: 3 cr. Graduate. 
Introduction to the major writers and themes in African American literature, emphasizing current critical issues. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 781 Modern American Literature: 3 cr. Graduate. 
Introduction to American literature of the 20th century, emphasizing current critical issues. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 782 Contemporary Literature: 3 cr. Graduate. 
Introduction to recent developments in English and American literature, emphasizing new writers and significant literary innovations. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 783 World Literature in English: 3 cr. Graduate. 
A course focusing on the major writers, themes and traditions of national/ethnic groups outside England and the United States. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 784 Topics in Transnational Literature 3 cr. Graduate. 
Texts, concepts, topics, and/or theoretical issues in literature from a transnational perspective. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 9 cr max. 
Last Taught: Spring 2019, Spring 2018, Fall 2015. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 785 Practicum in Teaching ESL to Adult Learners 1-6 cr. Graduate. 
Field experience in teaching English as a second language to adult learners. 
Prerequisites: grad st; English/Linguis 567(P) or Linguis 767(P); cons instr. 
Course Rules: Open only to grad students in Linguis specializing in ESL. Retakable to max of 6 cr. English 789 & Linguis 789 are jointly offered; they count as repeats of one another. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 786 Seminar in Linguistics: 3 cr. Graduate. 
Particular area of linguistics through readings, class discussion, and writing a research paper. 
Prerequisites: grad st; English/Linguis 400(P). 
Course Rules: Retakable w/chg in topic to 9 cr max. English 806 & Linguis 806 are jointly offered; w/same topic, they count as repeats of one another. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 787 Seminar in English Language: 1-4 cr. Graduate. 
Advanced-level seminar addressing specific topics in English language, both contemporary and historical. 
Prerequisites: grad st; English/Linguis 400(P). 
Course Rules: Retakable w/chg in topic to 9 cr max. English 805 & Linguis 805 are jointly offered; w/same topic, they count as repeats of one another. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 788 Seminar in Linguistics: 3 cr. Graduate. 
Advanced-level seminar in which students do in-depth research on a particular area of linguistics through readings, class discussion, and writing a research paper. 
Prerequisites: grad st; cons instr. 
Course Rules: Retakable w/chg in topic to 9 cr max. English 806 & Linguis 806 are jointly offered; w/same topic, they count as repeats of one another. 
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 812 Seminar in Theories of Composition and Rhetoric:
3 cr. Graduate.
A graduate-level introduction to the history and current development of rhetoric and composition theory, and to their applications in research in written composition. 
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max. 
Last Taught: Fall 2018, Fall 2013, Fall 2011, Fall 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 813 Special Topics in Creative Writing:
3 cr. Graduate. 
Readings, writing, and discussion in a designated genre, form, or literary tradition. 
Prerequisites: grad st; cons instr. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 814 Seminar in Irish Literature:
3 cr. Graduate. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 9 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 815 Seminar in Fiction Writing:
3 cr. Graduate. 
Content varies. A workshop for graduate students. 
Prerequisites: graduate standing and ENGLISH 715(P). 
Course Rules: Retakable to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 816 Seminar in Poetry Writing:
3 cr. Graduate. 
Content varies. A workshop for advanced graduate students. 
Prerequisites: grad st, English 716(P). 
Course Rules: Retakable to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 817 Seminar in Critical Writing
3 cr. Graduate. 
An advanced workshop in the writing and revising of critical essays. 
Prerequisites: grad st. 
Last Taught: Spring 2019, Spring 2012, Fall 2010, Fall 2008. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 819 Project in Creative Writing
1-6 cr. Graduate. 
Content varies 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. Open only to MA candidates in Plan C, creative writing. 
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 820 Seminar in Advanced Topics in Literary Criticism and Research:
1-3 cr. Graduate. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 9 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 822 Seminar in Poetry:
3 cr. Graduate. 
An intensive examination of some aspect of the genre, including questions of history, theory, theme, or technique, or the study of major figures. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 9 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 824 Seminar in Special Topics in Literature:
3 cr. Graduate. 
Advanced study of a topic in literary history, criticism or theory. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 9 cr max. 
Last Taught: Fall 2015, Fall 2011, Spring 2010, Fall 2008. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 825 Seminar in Major Figures:
3 cr. Graduate. 
Topics vary. Poetry, fiction, drama, and non-fiction prose writers, with attention to biography, culture and literary background. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Last Taught: Spring 2018, Fall 2014, Spring 2012, Fall 2011. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 827 Seminar in Contemporary Literature:
3 cr. Graduate. 
Advanced study of a specialized topic or critical issue in the recent work of contemporary writers in english. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Last Taught: Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 828 Seminar in Comparative Literature:
3 cr. Graduate. 
Advanced study of a specialized topic or critical issue in the literatures of two or more languages and/or national traditions. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

ENGLISH 843 Seminar in Renaissance Prose and Poetry:
3 cr. Graduate. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 9 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 845 Seminar in Shakespeare:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 853 Seminar in Contemporary Rhetorical Theory:
1-3 cr. Graduate.
Issues, topics, and major figures in contemporary rhetoric, philosophies of composition, critical discourse, and theories of writing.
Prerequisites: grad st; English 750(P); English 753(P) or 755(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 854 Seminar in College Writing Pedagogy:
3 cr. Graduate.
Professional concerns in teaching college writing; develops various topics in-depth, such as cultural literacy or large-scale assessment.
Prerequisites: grad st; 6 cr at 700-level, including English 706(P), 754(P), or 755(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2015, Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 855 Seminar in Public Rhetorics and Community Engagement:
3 cr. Graduate.
Theories of public rhetorics and community engagement. The effects of institutional structures and organizational cultures on writers and rhetoric. Retakable w/chg in topic to 6 cr max. Prereq: grad st; English 706(P); English 753(P) or 756(P).
Last Taught: Fall 2019, Fall 2017, Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 858 Seminar in Professional and Literary Nonfiction:
3 cr. Graduate.
Advanced study of publications and audiences in nonfiction; intensive writing and research in scholarship, education, the arts, human services, business, and government.
Prerequisites: grad st; English 758(p).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 861 Seminar in Romantic Literature:
3 cr. Graduate.
This seminar will examine one or more aspects of english romanticism as expressed in the poetry and essays of the age.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2000, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 862 Seminar in Victorian Literature:
3 cr. Graduate.
Advanced studies in victorian poetry, fiction, drama, and non-fiction prose, with attention to culture and critical theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Spring 2016, Fall 2006, Fall 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 871 Seminar in African American Literature:
3 cr. Graduate.
Intensive examination of one or more major writers, themes, or critical topics in the literature of African Americans.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 872 Seminar in Women Writers:
3 cr. Graduate.
Intensive examination of one or more major writers, themes, or critical topics.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 874 Seminar in World Literature in English:
3 cr. Graduate.
Advanced study of one or more major writers or special topics in the literature outside England and the United States.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 875 Seminar in Modern Literature:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2015, Spring 2014, Fall 2012, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 876 Seminar in Media Culture:
3 cr. Graduate.
Seminar focused on a broad issue related to media culture or specific forms of media, including alternative textual production, cinema, and digital culture.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 876 & FilmStd 876 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 877 Seminar in Film Theory:
3 cr. Graduate.
A graduate-level seminar in film theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 877 & FilmStd 877 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 878 Seminar in Feminist Critical Theory:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ENGLISH 879 Seminar in Native American Literature:
3 cr. Graduate.
Intensive examination of one or more major writers, themes, or critical
topics in the literature of native americans.
Prerequisites: grad st.
Course Rules: Retakable wchg in topic to 6 cr max.
Last Taught: Fall 2013, Fall 2009, Spring 2006, Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 881 Seminar in Colonial American Literature:
3 cr. Graduate.
Advanced studies in the literature of colonial america with special
attention to cultural and literary backgrounds and critical theory.
Prerequisites: grad st.
Course Rules: Retakable wchg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 882 Seminar in Nineteenth-Century American Literature:
3 cr. Graduate.
Retakable wchg in topic to 6 cr max. Prereq: grad st
Prerequisites: grad st.
Course Rules: Retakable wchg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2013, Fall 2012, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 883 Seminar in Twentieth-Century American Literature:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable wchg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 885 Seminar in Critical Theory:
3 cr. Graduate.
A graduate-level seminar in one or more major theoretical models,
methods, or approaches.
Prerequisites: grad st.
Course Rules: Retakable wchg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 887 Understanding Participatory Media
3 cr. Graduate.
Theory and critical approaches to creative use of computational,
networked media.
Prerequisites: grad st.
Course Rules: Counts as repeat of English 876 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 888 Candidate for Degree
0 cr. Graduate.
Available for students who must meet minimum credit requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit
load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2019, Fall 2018, Fall 2017, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 890 Science, Communications, & Public Engagement
3 cr. Graduate.
Theory and practice of science communication and public engagement
for a variety of audiences, including interdisciplinary researchers, public
policy professionals, the press, and public stakeholders.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 902 STEM and Public Debate
1 cr. Graduate.
How to engage in public debates about science, with special attention
paid to responding to scientific detractors and manufactured
controversies.
Prerequisites: grad st; English 901(R)
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 903 Presenting STEM
1 cr. Graduate.
Development of facility with oral presentations of research results to a
wide variety of venues including conferences, public lectures, and job
talks.
Prerequisites: grad st, English 901(R)
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 990 Research in English
1-3 cr. Graduate.
Reserved for research in connection with doctoral thesis.
Prerequisites: admits to Ph.D. prog & completion of 45 grad cr.
Course Rules: Retakable as necessary to fulfill thesis requirements.
Consult coord grad studies.
Current Offerings: https://catalog.uwm.edu/course-search/

ENGLISH 999 Independent Reading for Ph.D. Candidates
1-3 cr. Graduate.
Consult graduate advisor.
Prerequisites: admits to Ph.D. candidacy.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

English for Academic Purposes
(Formally ESL) (EAP)

EAP 100 Introduction to College Writing for Multilingual Students
4 cr. Undergraduate.
Opportunities for multilingual students to improve their analytical reading
and academic writing skills while offering intensive language work and
individualized instruction.
Prerequisites: English Placement Test for Non-Native Speakers of English
(EPT-NNSE) score of 2, or ACT score of 10-16, or SAT score of 301-460,
or ESL-PIC score of 1, 2, or 3, or grade of C or better in EAP 110(P),
EAP 115(P), or EAP 116(P).
Course Rules: Counts as repeat of 4 cr of combined EAP 116 & 117.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
EAP 101 College Writing for Multilingual Students/English 101
3 cr. Undergraduate.
Prepares and qualifies multilingual writers for ENGLISH 102. Writing analytical essays based on academic reading.
Prerequisites: English Placement Test for Non-Native Speakers of English (EPT-NSE) score of 3; or ESL-PIC score of 4; or ACT score of 17-24; or SAT score of 461-590; or grade of C or better in EAP 100 (P), EAP 117(P), or ENGLISH 100(P).
Course Rules: Counts as repeat of EAP 118.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 105 Skills for Academic Reading Success
3 cr. Undergraduate.
Introduces ESL students to academic reading strategies and builds basic reading competence in English. Uses high-interest materials to invite engaging class discussions.
Prerequisites: ESL-PIC score of 0.
Course Rules: Open only to students who are non-native speakers of English.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 110 College Reading and Writing Skills for Multilingual Students
4 cr. Undergraduate.
Opportunities for multilingual students to develop reading comprehension and critical reading skills along with basic composition skills, including individualized, grammar-based instruction.
Prerequisites: English Placement Test for Non-Native Speakers of English (EPT-NSE) Score of 1 or self-placement.
Course Rules: Counts as repeat of 4 cr of EAP 105 & 115.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 115 Basic Writing in English as a Second Language
6 cr. Undergraduate.
Introduction to academic writing practices. Intensive grammar review and vocabulary expansion with individualized instruction. Extensive reading and writing.
Prerequisites: score at level 1 on ESL-PIC test.
Course Rules: For non-native speakers of English. No cr for students with cr in EAP 116.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 116 Introduction to College Writing in English as a Second Language
6 cr. Undergraduate.
Rigorous introduction to academic writing practices, including reading-based writing. Thorough review of grammar, with individualized instruction. Extensive reading and writing.
Prerequisites: score at level 2 on ESL-PIC test; or grade C or better in EAP 115(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 117 College Writing in English as a Second Language
6 cr. Undergraduate.
Guidance in analytical reading and academic writing plus intensive language work, with individualized instruction. Extensive reading and writing.
Prerequisites: score at level 3 on ESL-PIC test; or grade C or better in EAP 116(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 118 Advanced College Writing in English as a Second Language
English 101
3 cr. Undergraduate.
Prepares and qualifies ESL writers for English 102. Writing analytical essays based on academic reading.
Prerequisites: score at level 4 on ESL-PIC test; or grade C or better in EAP 117(P); or grade B or better in EAP 116(P) & cons instr.
Course Rules: Counts as repeat of English 101.
Last Taught: Summer 2016, Spring 2016, Fall 2015, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 120 Grammar and Editing in English for Multilingual Students
3 cr. Undergraduate.
Grammar instruction and practice for non-native speakers of English.
Prerequisites: none.
Course Rules: Open only to undergraduates who are non-native speakers of English.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 135 Basic Skills in Academic Listening & Speaking
3 cr. Undergraduate.
Academic presentation and lecture note-taking skill development for English learners with no previous formal instruction in these areas.
Prerequisites: none.
Course Rules: Open only to undergraduate students who are non-native speakers of English.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 145 Practice in Academic Listening and Speaking
3 cr. Undergraduate.
Academic presentation and lecture note-taking skill development for English learners with previous formal instruction in these areas.
Prerequisites: a grade of C or better in EAP 135(P) or consent of instructor.
Course Rules: Open only to undergraduate students who are non-native speakers of English.
Last Taught: Spring 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
EAP 299 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 420 Advanced Reading, Writing, and Grammar Tune-up for Internationals 4 cr. Undergraduate.
Refinement of advanced undergraduate and graduate students’ language control; extensive reading, writing, and contextualized grammar; focus on American academic expectations. Intensive individual conferences.
Prerequisites: jr st.
Course Rules: May enroll in one fall and one spring term to a combined total of 8 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EAP 435 Advanced Listening, Speaking, and Notetaking Skills for Internationals 4 cr. Undergraduate.
Refinement of advanced undergraduate and graduate students’ listening and speaking skills and pronunciation. Focus on American academic expectations. Intensive individual conferences target unique needs.
Prerequisites: jr st.
Course Rules: May enroll in one fall and one spring term to a combined total of 8 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EOH 939 Seminar in Environmental and Occupational Health 1 cr. Graduate.
Presentation of topics of current interest in environmental and occupational health.
Prerequisites: grad st
Course Rules: May be repeated to 4 cr max.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

EOH 940 Research in Environmental and Occupational Health 1-6 cr. Graduate.
Research under supervision of mentor
Prerequisites: grad st; cons instr
Last Taught: Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

EOH 990 Research and Dissertation 1-8 cr. Graduate.
Original research in the field of environmental and occupational health
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

EOH 999 Independent Study 1-3 cr. Graduate.
Independent study on a topic not available as a regular course, directed by a member of the graduate faculty.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

Ethnic Studies, Comparative (ETHNIC)

Origins and development of racial and ethnic identities in the Americas; specific attention to Wisconsin history; African-American, American Indian, Latino, Euro-American identities; relationships among them. 2 hrs lec, 1 hr dis.
Prerequisites: none.
Course Rules: Not retakable for cr; may be repeated for higher grade.
General Education Requirements: CD, HU
Last Taught: Fall 2019, Fall 2018, Summer 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

Modern and contemporary social and cultural processes of migration and identity; role of law as 'gatekeeping'; history of nativism, interethnic relations, and community formation.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/
ETHNIC 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 193 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 199 Independent Study: Lower Division
1-3 cr. Undergraduate.
For further information, consult Ethnic Studies coordinator.
Prerequisites: 2.25 gpa on at least 12 graded cr; writ cons instr & prog coord.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 200 Racial Minorities in the United States
3 cr. Undergraduate.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 245 Indians, Artists, and Conquistadores: The U.S. Southwest
3 cr. Undergraduate.
Interaction of diverse Indian, European, and Latino cultures in the U.S. southwest.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 250 Selected Topics in Ethnic Studies:
3 cr. Undergraduate.
This course will focus on one individual ethnic group, or one particular aspect of an ethnic group.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2015, Spring 2014, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 255 Migration and Gender: Starbucks, Sex Trafficking, and Nannies
3 cr. Undergraduate.
Changing roles of women in the global marketplace; effects of migration on gender and family life.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 250 with similar title.
General Education Requirements: CD, HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 265 Hmong Americans: History, Culture, and Contemporary Life
3 cr. Undergraduate.
Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America.
Prerequisites: none.
Course Rules: Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 275 Queer Migrations
3 cr. Undergraduate.
How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.
Prerequisites: none.
Course Rules: No cr for students w/cr in Ethnic 250 w/similar topic.
Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 285 Cultures of Contemporary Russia
3 cr. Undergraduate.
Ethnic conflict and struggles over language, territory, culture, and politics after the dissolution of the Soviet Union.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 250 w/similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 289 Internship in Ethnic Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in ethnic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
ETHNIC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 325 Gender, Race, and Ethnicity in Milwaukee:
3 cr. Undergraduate.
Influxes into the U.S. of migrants from Europe, Latin America, and
elsewhere; evolution of conflict and division; particular attention to Civil
Rights and deindustrialization.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
General Education Requirements: CD, HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 350 Advanced Topics in Comparative Ethnic Studies:
3 cr. Undergraduate.
Various advanced topics in the field of comparative ethnic studies.
Prerequisites: Ethnic 101(P); 102(P), or 250(P), or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 355 Muslims and American Popular Culture
3 cr. Undergraduate.
History of Muslims in American pop culture; sub-cultures of various
Muslim ethnic groups from the perspective of film, literature, and music.
Prerequisites: jr st or Ethnic 101(P) or 102(P).
Last Taught: Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 360 Villainy, Sex, & Blood: Race, Gender & Ethnicity in Pop Culture
3 cr. Undergraduate.
Exploration of the ways in which popular culture creates, maintains, and
challenges notions of race, gender, and ethnicity throughout the American
historical experience.
Prerequisites: jr st.
Course Rules: Counts as a repeat of Ethnic 250 w/ similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 375 Global Violence, Disease, and Death
3 cr. Undergraduate.
Development schemas, health policies, and the role of international
organizations in global incidents of suffering, violence, and death.
Prerequisites: jr st or Ethnic 101(P) or 102(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 489 Internship in Ethnic Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of ethnic studies in a business,
organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in ethnic stds; 2.25 gpa;
cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in
internship. Retakable to 6 cr max.
Last Taught: Spring 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; 300-level or above course in ethnic stds; 2.25 gpa;
cons supervising faculty member.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2011, Summer 2010, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 550 Senior Seminar in Comparative Ethnic Studies:
3 cr. Undergraduate.
Focus on specific aspects (social, cultural) of ethnic and racial identity,
based on readings and presentation of original student research.
Prerequisites: sr st; cons instr.
Course Rules: Topic varies; not retakable for cr. May be repeated for
higher grade. Satisfies L&S Seminar req.
Current Offerings: https://catalog.uwm.edu/course-search/

ETHNIC 599 Advanced Independent Work
1-3 cr. Undergraduate.
See Independent Study. For further information consult Ethnic Studies
coord.
Prerequisites: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for
SAS.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
Exceptional Education (EXCEDUC)

EXCEDUC 200 Fieldwork in Exceptional Education:
1-4 cr. Undergraduate.
Field experience designed to allow pre-education students to participate and observe in exceptional education setting.
Prerequisites: none.
Course Rules: C or better in EXCEDUC 303(P) or Level 2 ASLPI score.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic. May be retaken w/adm. to ITP program.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 299 Independent Reading
1-3 cr. Undergraduate.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 300 The Exceptional Individual
3 cr. Undergraduate.
An introduction to etiology, historic background, current service provisions, and issues and trends related to individuals with learning, sensory, behavioral, or physical handicapping conditions.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 301 American Sign Language I
3 cr. Undergraduate.
This course will introduce basic American Sign Language structure and study of deaf culture. Basic fingerspelling principles are also introduced.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 302 American Sign Language II
3 cr. Undergraduate.
This course will continue skills in American Sign Language, fingerspelling and the study of deaf culture.
Prerequisites: C or better in EXCEDUC 301(P) or Level 1 ASLPI score.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 303 American Sign Language III
3 cr. Undergraduate.
Focus is on the development of intermediate level skills in American Sign Language, its structure and study of deaf culture.
Prerequisites: C or better in EXCEDUC 302(P) or Level 1+ ASLPI score.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 304 American Sign Language IV
3 cr. Undergraduate.
Focus on the continuing development of intermediate level skills in American Sign Language, its structure and the study of deaf culture.
Prerequisites: C or better in EXCEDUC 303(P) or Level 2 ASLPI score.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 305 American Sign Language V
3 cr. Undergraduate.
Advanced American Sign Language focusing on classifiers, fingerspelling, numeric techniques and grammar.
Prerequisites: C or better in EXCEDUC 304 (P) or Level 2+ ASLPI score.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 306 American Sign Language VI
3 cr. Undergraduate.
Advanced American Sign Language focusing on register, colloquialisms, storytelling and poetry.
Prerequisites: C or better in EXCEDUC 305(P).
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 320 Introduction to Interpreting: English to American Sign Language
3 cr. Undergraduate.
Theoretical and practical examination and development of various techniques of interpreting from English into American Sign Language through discourse analysis.
Prerequisites: grade of B or better in EXCEDUC 303(P).
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 321 Introduction to Interpreting: American Sign Language to English
3 cr. Undergraduate.
Theoretical and practical examination and development of various techniques of interpreting from American Sign Language to English through discourse analysis.
Prerequisites: grade of B or better in EXCEDUC 303(P).
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 330 Deaf History
3 cr. Undergraduate.
History of the Deaf Community in America primarily as well as in other countries.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 335 Educational Interpreting I
3 cr. Undergraduate.
Explores issues related to interpreting for children in settings from pre-kindergarten through elementary. Analysis of impact of transitions on professional roles, responsibilities, and ethics.
Prerequisites: admis. to ITP program.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 336 Postsecondary Interpreting I
3 cr. Undergraduate.
Introductory knowledge/skills-based course that examines interpreting in a postsecondary environment, including both the technical college and university level.

Prerequisites: admis. to ITP program.


Current Offerings: [link]

EXCEDUC 337 Video Relay Services Interpreting I
3 cr. Undergraduate.
Introductory knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting.

Prerequisites: admis. to ITP program.


Current Offerings: [link]

EXCEDUC 338 Introduction to Healthcare Interpreting
3 cr. Undergraduate.
Introduction to the unique challenges of and skills for sign language interpreting in medical settings.

Prerequisites: admis. to ITP.

Last Taught: Fall 2019, Fall 2018.

Current Offerings: [link]

EXCEDUC 345 Foundations of English to ASL Interpreting
3 cr. Undergraduate.
Techniques for changing an auditory English message into American Sign Language and vice versa.

Prerequisites: jr st & admis to ITP or cons instr.

Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.

Current Offerings: [link]

EXCEDUC 346 Skill Development: Semantics
3 cr. Undergraduate.
Analysis of American Sign Language linguistics semantics. Focus of individual sign meanings, semantic grammar structure including colloquialisms and cultural influences on meanings of signs.

Prerequisites: C or better in EXCEDUC 304(P) or Level 2+ ASLPI score

Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.

Current Offerings: [link]

EXCEDUC 347 Foundations of ASL to English Interpreting
3 cr. Undergraduate.
Development of English skills for the purposes of providing appropriate interpretations.

Prerequisites: admis to ITP or cons instr.

Course Rules: Not open to students with cr in EXCEDUC 326(426).

Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.

Current Offerings: [link]

EXCEDUC 348 Introduction to the Profession of Interpreting
3 cr. Undergraduate.
Introduction to the professions and practices of interpreting. Focus on its history, philosophies, ethics, roles, resources and credentialing within the profession.

Prerequisites: none.

Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.

Current Offerings: [link]

EXCEDUC 349 Field Work: Interacting in the Deaf Community I
3 cr. Undergraduate.
Experiences of observation, actual interpreting, sign teaching and interaction with deaf community. Weekly seminar provides forum for feedback and processing experiences.

Prerequisites: jr st & admis to ITP, or consent of instructor.

Course Rules: Not open for cr to students with cr in EXCEDUC 322.

Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.

Current Offerings: [link]

EXCEDUC 350 Interpreting: Spoken English to ASL II
3 cr. Undergraduate.
Continues to develop the skill of changing a message signed in ASL into spoken English. Consecutive mode practiced; individual appointments emphasized.

Prerequisites: admis to ITP, EXCEDUC 345(P).

Course Rules: Not open for cr to students with cr in EXCEDUC 315.


Current Offerings: [link]

EXCEDUC 351 Interpreting ASL to Spoken English II
3 cr. Undergraduate.
Practical application of the process of taking a spoken English message and converting it into American Sign Language. Emphasis on the consecutive mode.

Prerequisites: jr st & admis to ITP, or cons instr.

Course Rules: Not open for cr to students with cr in EXCEDUC 315.


Current Offerings: [link]

EXCEDUC 352 American Deaf Culture
3 cr. Undergraduate.
The impact of Deaf culture on the Deaf community and Deaf education, understanding the Deaf person in a cultural context.

Prerequisites: none.

Course Rules: Not open for cr to students with cr in EXCEDUC 340(650).

General Education Requirements: SS


Current Offerings: [link]

EXCEDUC 353 Introduction to Culturally Diverse Community Resources
3 cr. Undergraduate/Graduate.
Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting.

Prerequisites: jr st & admis to ITP, or grad st, or cons instr.

Course Rules: Not open for cr to students with cr in EXCEDUC 315.


Current Offerings: [link]

EXCEDUC 353G Introduction to Culturally Diverse Community Resources
3 cr. Undergraduate/Graduate.
Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting.

Prerequisites: jr st & admis to ITP, or cons instr.

Course Rules: Not open for cr to students with cr in EXCEDUC 315.


Current Offerings: [link]

EXCEDUC 354 American Deaf Culture
3 cr. Undergraduate.
The impact of Deaf culture on the Deaf community and Deaf education, understanding the Deaf person in a cultural context.

Prerequisites: none.

Course Rules: Not open for cr to students with cr in EXCEDUC 340(650).

General Education Requirements: SS


Current Offerings: [link]

EXCEDUC 355 Introduction to Culturally Diverse Community Resources
3 cr. Undergraduate/Graduate.
Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting.

Prerequisites: jr st & admis to ITP, or grad st, or cons instr.

Course Rules: Not open for cr to students with cr in EXCEDUC 315.


Current Offerings: [link]
EXCEDUC 354 Field Work: Interacting in the Deaf Community II
3 cr. Undergraduate.
Continuation of EXCEDUC 323. Requires time observing, interpreting, teaching and community interaction. Weekly seminars continue to provide forum for processing of experiences.
Prerequisites: junior standing, admis to ITP, and EXCEDUC 349(P).
Course Rules: Not open for cr to students with cr in EXCEDUC 323.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 355 Interpreting: ASL to Spoken English III
3 cr. Undergraduate.
Developing intermediate to advanced skills in simultaneously converting American Sign Language to spoken English.
Prerequisites: EXCEDUC 345(P) & EXCEDUC 350(P); & admis to ITP.
Course Rules: Not open for cr to students with cr in EXCEDUC 318 or EXCEDUC 319.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 356 Transliteration II
3 cr. Undergraduate.
Skills and theory necessary to change a spoken English message into the form of a signed English message and vice-versa.
Prerequisites: admis to ITP or cons instr.
Course Rules: Not open for cr to students with cr in EXCEDUC 327 or EXCEDUC 328.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 357 Issues and Trends for Educational Interpreters
3 cr. Undergraduate.
Historical and current issues affecting the education of students who are deaf and hard-of-hearing and their influence on the field of educational interpreting.
Prerequisites: admis to ITP.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 358 ASL/English Linguistics I
3 cr. Undergraduate.
The linguistics of American Sign Language, exploring its structure and grammar, emphasizing its phonology and its comparison to English.
Prerequisites: a grade of C or better in EXCEDUC 306(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 359 Fieldwork: Interacting in the Deaf Community III
3 cr. Undergraduate.
Continuation of EXCEDUC 323: requires greater emphasis on interpreting, less on observation, teaching and community interaction. Weekly seminar continues for processing of experiences.
Prerequisites: EXCEDUC 345(P) or EXCEDUC 349(P); & admis to ITP.
Course Rules: Not open for cr to students with cr in EXCEDUC 324.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 360 Transliteration/Oral I
3 cr. Undergraduate.
Introduction of the mechanics and skills needed for Transliteration and Oral Interpreting.
Prerequisites: admis to ITP, EXCEDUC 350(P) & EXCEDUC 355(P); or cons instr.
Course Rules: Not open for cr to students with cr in EXCEDUC 320.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 361 Interpreting: Spoken English to ASL III
3 cr. Undergraduate.
Developing intermediate to advanced skills in simultaneously converting spoken English into American Sign Language. Students will work with a variety of stimulus materials.
Prerequisites: admis to ITP, EXCEDUC 351(P) & EXCEDUC 355(P), or cons instr.
Course Rules: Not open for cr to students who have cr in EXCEDUC 321.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 362 Specialized Interpreting Across Diverse Settings
3 cr. Undergraduate.
Guidelines for interpreting, transliterating, and voicing in a variety of settings, including vocational, legal, health related and performing arts.
Prerequisites: admis to ITP.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 363 ASL/English Linguistics II
3 cr. Undergraduate.
Focus on the linguistics of American Sign Language, including emphasis on its morphology and syntax and its comparison to English.
Prerequisites: junior standing and a grade of C or better in EXCEDUC 358(P); or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 364 Fieldwork: Interacting in the Deaf Community IV
6-12 cr. Undergraduate.
Continuation of EXCEDUC 359: requiring 70% focus on actual interpreting, the remainder on observation, teaching and community interaction. Seminar offers forum for processing experiences.
Prerequisites: EXCEDUC 354(P) & EXCEDUC 359(P) & admis to ITP.
Course Rules: May be retaken to 12 cr max. Not open for cr to students with cr in EXCEDUC 325.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 365 Educational Interpreting II
3 cr. Undergraduate.
Issues related to interpreting for children from 6th through 12th grade. Use of various sign systems in educational settings, working conditions and attitudes, and DPI certification issues.
Prerequisites: admis. to ITP.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 366 Postsecondary Interpreting II  
3 cr. Undergraduate.  
Advanced knowledge/skills-based course that examines interpreting in a postsecondary environment, including technical college and university level.  
Prerequisites: admis. to ITP.  
Last Taught: Fall 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 367 Video Relay Services Interpreting II  
3 cr. Undergraduate.  
Continuation of the VRS Foundations I course and will continue to be a knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting.  
Prerequisites: admis. to ITP.  
Last Taught: Fall 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 368 Medical and Mental Healthcare Interpreting  
3 cr. Undergraduate.  
Prerequisites: admis. to ITP.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 371 Strategies for the National Interpreter Certification Exam  
1 cr. Undergraduate.  
Techniques and strategies for the knowledge and ethical skills required for the RID-NIC Knowledge Exam.  
Prerequisites: grade of B- or better in EXCEDUC 354(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 372 Interpreter Training Program Capstone  
3 cr. Undergraduate.  
Integrates coursework, knowledge, skills and experiential learning to enable the student to demonstrate a broad mastery of learning across the curriculum for a promise of employability and further career advancement.  
Prerequisites: EXCEDUC 364(C).  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 375 Using Technology for Teaching and Learning  
1 cr. Undergraduate.  
Introduce students to various forms of technology used in the PK-12 classrooms.  
Prerequisites: none.  
Course Rules: Jointly offered with and counts as repeat of CURRINS 375.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 376 Understanding and Developing the edTPA  
1 cr. Undergraduate.  
In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries.  
Prerequisites: none.  
Course Rules: Credit/no credit only. Jointly offered with and counts as repeat of CURRINS 376.  
Last Taught: Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 377 Wisconsin Foundations of Reading  
1 cr. Undergraduate.  
Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8.  
Prerequisites: none.  
Course Rules: Jointly offered with and counts as repeat of CURRINS 377. Credit/No Credit only.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 456 Seminar in Student Teaching  
1-3 cr. Undergraduate.  
Discussion seminar designed to bring continuity to the professional semester. Material will relate directly to the concurrent practicum experience of the students.  
Prerequisites: jr st & conc reg in student teaching.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 472 Student Teaching with Students Having Hearing Impairments  
1-12 cr. Undergraduate.  
Prerequisites: sr st & cons dept; EXCEDUC 650(P).  
Course Rules: May be retaken to 15 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 473 Student Teaching with Students Having Cognitive Disabilities  
1-12 cr. Undergraduate.  
Prerequisites: sr st & cons dept; EXCEDUC 640(P).  
Course Rules: May be retaken to 15 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 475 Student Teaching with Students Having Emotional Disturbance  
1-12 cr. Undergraduate.  
Prerequisites: sr st & cons dept; EXCEDUC 620(P).  
Course Rules: May be retaken to 15 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 478 Student Teaching with Students Having Learning Disabilities  
1-12 cr. Undergraduate.  
Prerequisites: sr st & cons dept; EXCEDUC 610(P).  
Course Rules: May be retaken to 15 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

EXCEDUC 481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs  
1-12 cr. Undergraduate.  
Prerequisites: sr st & cons dept; EXCEDUC 630(P).  
Course Rules: May be retaken to 18 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 486 Linking Seminar: Developing Reflective Practice
1-3 cr. Undergraduate.
Links formal course work and teaching experience. Focus on teaching
in urban schools, accommodating diverse learners developing reflective
practice and/or creating a professional development portfolio.
Prerequisites: admis to School of Educ.
Course Rules: Cr/no cr only; May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 487 Linking Seminar II: Primary/Middle-Behavioral Support,
Planning, Assessment
1 cr. Undergraduate.
Links formal course work and teaching experience. Focus on becoming a
reflective practitioner and development as a special education teacher.
Prerequisites: Cr/no cr only; prereq: jr st; admis Post-Bac Cert prog or
cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 488 Linking Seminar: Professional Development
1 cr. Undergraduate/Graduate.
Links formal coursework and teaching experience. Focus on teacher as
advocate and change agent and professional development.
Prerequisites: jr st; admis to School of Educ.
Course Rules: Cr/no cr only;
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 488G Linking Seminar: Professional Development
1 cr. Undergraduate/Graduate.
Links formal coursework and teaching experience. Focus on teacher as
advocate and change agent and professional development.
Prerequisites: jr st; admis to School of Educ.
Course Rules: Cr/no cr only;
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 489 Linking Seminar II: Middle/High-Behavioral Support,
Planning & Assessment
1 cr. Undergraduate.
Links formal coursework and teaching experience. Focus on organizing
for instruction and emotional/behavioral support at the middle and high
school level.
Prerequisites: EXCEDUC 635(C) & EXCEDUC 587(C); admis to ExcEduc
prog; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 496 Linking Seminar III: Middle/High - Professional
Development
1 cr. Undergraduate.
Links formal course work and teaching experience. Focus on supporting
students with behavioral challenges, planning for and managing day-to-
day teaching responsibilities, transition planning.
Prerequisites: admis to School of Educ.
Course Rules: Cr/no cr only;
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 500 Fingerspelling & Numbers
3 cr. Undergraduate.
Introduction to fingerspelling and numbers in ASL.
Prerequisites: junior standing and a grade of C or better in
EXCEDUC 304(P) or Level 2+ ASLPI score.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 503 Job Development and On the Job Support for Students
with Disabilities
3 cr. Undergraduate.
Overview of the career development process and a person-centered
framework for job development and job support.
Prerequisites: EXCEDUC 679(P)
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 505 Transition Assessment for Individuals with Disabilities
3 cr. Undergraduate.
Transition assessments related to training, education, employment, and
living skills for students with disabilities.
Prerequisites: EXCEDUC 679(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 507 Linking Academics and Self-Determination to Transition
Planning
3 cr. Undergraduate.
Youth development and the importance of preparing youth to take
the lead in their education, career development, and community
participation.
Prerequisites: EXCEDUC 679(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 510 Classifiers
3 cr. Undergraduate.
Study of the classifier system of ASL.
Prerequisites: junior standing and a grade of C or better in
EXCEDUC 305(P) or EXCEDUC 306(P).
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 520 ASL Literature
3 cr. Undergraduate.
Introduction to the analysis of ASL Literature.
Prerequisites: junior standing and a grade of C or better in EXCEDUC 306(P); or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 531 Inclusion for Secondary Educators: Humanities, the Arts,
Foreign Language
3 cr. Undergraduate/Graduate.
Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings.
Prerequisites: jr st & admis to School of Educ; or grad st.
Course Rules: Counts as repeat of EXCEDUC 530 and EXCEDUC 605.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 531G Inclusion for Secondary Educators: Humanities, the Arts,
Foreign Language
3 cr. Undergraduate/Graduate.
Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings.
Prerequisites: jr st & admis to School of Educ; or grad st.
Course Rules: Counts as repeat of EXCEDUC 530 and EXCEDUC 605.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 532 Assessment and Monitoring
3 cr. Undergraduate/Graduate.
Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 532G Assessment and Monitoring
3 cr. Undergraduate/Graduate.
Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 533 Assessment/Monitoring : Def & Hard of Hearing
1 cr. Undergraduate/Graduate.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 533G Assessment/Monitoring : Def & Hard of Hearing
1 cr. Undergraduate/Graduate.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 536 Inclusion for Secondary Science and Math Educators
1 cr. Undergraduate/Graduate.
History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.
Prerequisites: jr st; admis to teacher cert prog.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 536G Inclusion for Secondary Science and Math Educators
1 cr. Undergraduate/Graduate.
History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.
Prerequisites: jr st; admis to teacher cert prog.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 537 Math and Science Methods for All Learners
1 cr. Undergraduate/Graduate.
Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators.
Prerequisites: jr st; admis to teacher cert prog.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 537G Math and Science Methods for All Learners
1 cr. Undergraduate/Graduate.
Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators.
Prerequisites: jr st; admis to teacher cert prog.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 538 Teaching Math and Science to All Learners
1 cr. Undergraduate/Graduate.
Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators.
Prerequisites: jr st; admis to teacher cert prog.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 538G Teaching Math and Science to All Learners
1 cr. Undergraduate/Graduate.
Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators.
Prerequisites: jr st; admis to teacher cert prog.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 547 Comparative Special Education
3 cr. Undergraduate/Graduate.
Special education legislation, instruction, and policies in a variety of social and cultural contexts.
Prerequisites: jr st., completion of OWC-Part A
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 547G Comparative Special Education
3 cr. Undergraduate/Graduate.
Special education legislation, instruction, and policies in a variety of social and cultural contexts.
Prerequisites: jr st., completion of OWC-Part A
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 548 Introduction to Disability Studies
3 cr. Undergraduate/Graduate.
Focuses on understanding disability from a variety of perspectives: historical, political, social, cultural, literary, personal, and artistic. Disability is viewed in a manner closer to ethnic, gender, and sexuality studies.
Prerequisites: jr st, OWC Part A; or grad st.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 548G Introduction to Disability Studies
3 cr. Undergraduate/Graduate.
Focuses on understanding disability from a variety of perspectives: historical, political, social, cultural, literary, personal, and artistic. Disability is viewed in a manner closer to ethnic, gender, and sexuality studies.
Prerequisites: jr st, OWC Part A; or grad st.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 558 Communication in the Classroom I: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.
Prerequisites: must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 558G Communication in the Classroom I: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.
Prerequisites: must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 559 Communication in the Classroom II: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.
Prerequisites: EXCEDUC 680(P) & EXCEDUC 681(P). Admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 559G Communication in the Classroom II: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.
Prerequisites: EXCEDUC 680(P) & EXCEDUC 681(P). Admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 560 Foundations of Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.
Prerequisites: jr st or cons instr; grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Last Taught: Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 560G Foundations of Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.
Prerequisites: jr st or cons instr; grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Last Taught: Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 561 Methods for Working with Individuals with Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.
Prerequisites: jr st, C or better in EXCEDUC 560(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 561G Methods for Working with Individuals with Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 562 Hearing Science
3 cr. Undergraduate/Graduate.
Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 562G Hearing Science
3 cr. Undergraduate/Graduate.
Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 563 Speechreading/Auditory Rehabilitation
3 cr. Undergraduate/Graduate.
Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing.
Prerequisites: admis to Post-Bac Cert prog or cons instr; EXCEDUC 562(P); jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 563G Speechreading/Auditory Rehabilitation
3 cr. Undergraduate/Graduate.
Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing.
Prerequisites: admis to Post-Bac Cert prog or cons instr; EXCEDUC 562(P); jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 564 Communication Methods Practicum
3 cr. Undergraduate/Graduate.
Field experience with individuals with hearing impairments in schools. Emphasis on spoken and sign language development. Includes scheduled class and demonstrations.
Prerequisites: jr st; admis to School of Educ or grad st; EXCEDUC 541, EXCEDUC 562 & EXCEDUC 563, or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 564G Communication Methods Practicum
3 cr. Undergraduate/Graduate.
Field experience with individuals with hearing impairments in schools. Emphasis on spoken and sign language development. Includes scheduled class and demonstrations.
Prerequisites: jr st; admis to School of Educ or grad st; EXCEDUC 541, EXCEDUC 562 & EXCEDUC 563, or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 565 Techniques of Teaching School Subjects to Individuals w/ Hearing Impairments II
3 cr. Undergraduate/Graduate.
Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies.
Prerequisites: jr st & admis to School of Educ, or grad st; EXCEDUC 560 & EXCEDUC 561 or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 565G Techniques of Teaching School Subjects to Individuals w/ Hearing Impairments II
3 cr. Undergraduate/Graduate.
Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies.
Prerequisites: jr st & admis to School of Educ, or grad st; EXCEDUC 560 & EXCEDUC 561 or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 566 Curriculum and Methods for Special Education: Birth to Three
3 cr. Undergraduate/Graduate.
Designed for teachers serving infants and toddlers with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; EXCEDUC 647(C).
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 566G Curriculum and Methods for Special Education: Birth to Three
3 cr. Undergraduate/Graduate.
Designed for teachers serving infants and toddlers with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; EXCEDUC 647(C).
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 569 Curriculum and Methods for Special Education: Preschool
3 cr. Undergraduate/Graduate.
Designed for teachers serving preschool children with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; EXCEDUC 648(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 569G Curriculum and Methods for Special Education: Preschool
3 cr. Undergraduate/Graduate.
Designed for teachers serving preschool children with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; EXCEDUC 648(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 570 Curriculum and Methods for Special Education: Primary
3 cr. Undergraduate/Graduate.
Designed for teachers serving primary children with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; EXCEDUC 649(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 570G Curriculum and Methods for Special Education: Primary
3 cr. Undergraduate/Graduate.
Designed for teachers serving primary children with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; EXCEDUC 649(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 571 Curriculum Accommodations I: Primary/Middle
1-3 cr. Undergraduate/Graduate.
Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.
Prerequisites: admis to Post-Bac Cert prog or cons instr; jr st; EXCEDUC 587(C).
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 571G Curriculum Accommodations I: Primary/Middle
1-3 cr. Undergraduate/Graduate.
Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.
Prerequisites: admis to Post-Bac Cert prog or cons instr; jr st; EXCEDUC 587(C).
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 574 Curriculum Accommodations II: Primary/Middle
3 cr. Undergraduate/Graduate.
In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.
Prerequisites: EXCEDUC 571(P), 588(C). Admis to post-bac cert prog or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 574G Curriculum Accommodations II: Primary/Middle
3 cr. Undergraduate/Graduate.
In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.
Prerequisites: EXCEDUC 571(P), 588(C). Admis to post-bac cert prog or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 576 Curriculum Accommodations III: Functional for Middle to High Students
3 cr. Undergraduate/Graduate.
Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.
Prerequisites: admis to Post-Bac cert prog or cons instr.
Last Taught: Fall 2005, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 576G Curriculum Accommodations III: Functional for Middle to High Students
3 cr. Undergraduate/Graduate.
Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.
Prerequisites: admis to Post-Bac cert prog or cons instr.
Last Taught: Fall 2005, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 579 Current Topics in Exceptional Education:
1-3 cr. Undergraduate/Graduate.
Specific topic announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Summer 2015, Summer 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 579G Current Topics in Exceptional Education:
1-3 cr. Undergraduate/Graduate.
Specific topic announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Summer 2015, Summer 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 580 An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.
Prerequisites: jr st or cons instr. Course Rules: ED POL 580/EXCEDUC 580/SOC WRK 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 580G An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.
Prerequisites: jr st or cons instr. Course Rules: ED POL 580/EXCEDUC 580/SOC WRK 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 585 Supervised Practicum in Child and Youth Care
2-4 cr. Undergraduate/Graduate.
Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.
Prerequisites: jr st; ED POL 580/EXCEDUC 585/SOC WRK 585(P), or grad st; cons instr.
Course Rules: ED POL 585/EXCEDUC 585 are jointly offered & count as repeats of each other.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 586 Teaching Experience I
1-12 cr. Undergraduate/Graduate.
Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.
Prerequisites: jr st; admis to Post-Bac Cert prog. Course Rules: Ct/no cr only; may be retaken to 15 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 586G Teaching Experience I
1-12 cr. Undergraduate/Graduate.
Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.
Prerequisites: jr st; admis to Post-Bac Cert prog. Course Rules: Ct/no cr only; may be retaken to 15 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 587 Teaching Experience II
1-12 cr. Undergraduate/Graduate.
Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.
Prerequisites: jr st; admis to cert prog in ExcEduc; or cons instr. Course Rules: May be retaken to 15 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 587G Teaching Experience II
1-12 cr. Undergraduate/Graduate.
Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.
Prerequisites: jr st; admis to cert prog in ExcEduc; or cons instr. Course Rules: May be retaken to 15 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 588 Teaching Experience III
1-12 cr. Undergraduate/Graduate.
Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.
Prerequisites: jr st; admis to cert prog in ExcEduc; or cons instr. Course Rules: May be retaken to 15 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 588G Teaching Experience III
1-12 cr. Undergraduate/Graduate.
Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.
Prerequisites: jr st; admis to cert prog in ExcEduc; or cons instr. Course Rules: May be retaken to 15 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 589 Workshop in Exceptional Education:
1-6 cr. Undergraduate/Graduate.
Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.
Prerequisites: jr st; cons instr or workshop dir. Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 589G Workshop in Exceptional Education:
1-6 cr. Undergraduate/Graduate.
Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.
Prerequisites: jr st; cons instr or workshop dir. Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 595 Technology Applications for Diverse Learners
3 cr. Undergraduate/Graduate.
Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.
Prerequisites: jr st. Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 595G Technology Applications for Diverse Learners
3 cr. Undergraduate/Graduate.
Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 600 Survey of Exceptional Education
3 cr. Undergraduate/Graduate.
History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions.
Prerequisites: sr st & admis to School of Educ; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 600G Survey of Exceptional Education
3 cr. Undergraduate/Graduate.
History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions.
Prerequisites: sr st & admis to School of Educ; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 601 Behavioral Supports
3 cr. Undergraduate/Graduate.
Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis.
Prerequisites: admis to Post Bac Cert prog or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 601G Behavioral Supports
3 cr. Undergraduate/Graduate.
Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis.
Prerequisites: admis to Post Bac Cert prog or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 602 Resources and Instruction in American Sign Language
3 cr. Undergraduate/Graduate.
Course focuses on assessment and methodology components in teaching ASL as a foreign language.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 602G Resources and Instruction in American Sign Language
3 cr. Undergraduate/Graduate.
Course focuses on assessment and methodology components in teaching ASL as a foreign language.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 605 Child, Learner, Disabilities
3 cr. Undergraduate/Graduate.
Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Course Rules: Counts as repeat of EXCEDUC 530 and EXCEDUC 531.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 605G Child, Learner, Disabilities
3 cr. Undergraduate/Graduate.
Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Course Rules: Counts as repeat of EXCEDUC 530 and EXCEDUC 531.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 606G Multicultural Learning and Teaching in Special Education
3 cr. Undergraduate/Graduate.
Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 607 Multicultural Learning and Teaching in Special Education
3 cr. Undergraduate/Graduate.
Discusses the educational and culturally diverse backgrounds of deaf students in the schools.
Prerequisites: none.
Course Rules: Counts as repeat of EXCEDUC 579 with similar topic.
Last Taught: Summer 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 607G Working with Culturally Diverse Deaf Students
3 cr. Undergraduate/Graduate.
Discusses the educational and culturally diverse backgrounds of deaf students in the schools.
Prerequisites: none.
Course Rules: Counts as repeat of EXCEDUC 579 with similar topic.
Last Taught: Summer 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 608 Multicultural Learning and Teaching in Special Education
3 cr. Undergraduate/Graduate.
Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 608G Multicultural Learning and Teaching in Special Education
3 cr. Undergraduate/Graduate.
Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 612 Collaborations for Teachers with Families, Schools, and Communities
3 cr. Undergraduate/Graduate.
Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.
Prerequisites: jr st; admis to SOE; or cons instr.
Course Rules: Counts as repeat of CURRINS 505 and EXCEDUC 651.
Jointly offered with and counts as repeat of CURRINS 612.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 612G Collaborations for Teachers with Families, Schools, and Communities
3 cr. Undergraduate/Graduate.
Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.
Prerequisites: jr st; admis to SOE; or cons instr.
Course Rules: Counts as repeat of CURRINS 505 and EXCEDUC 651. Jointly offered with and counts as repeat of CURRINS 612.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 613 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st.
Course Rules: Counts as repeat of ED PSY 575. Jointly offered with and counts as repeat of ED PSY 613.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 613G Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st.
Course Rules: Counts as repeat of ED PSY 575. Jointly offered with and counts as repeat of ED PSY 613.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 630 Survey of EC Intervention: Young Children with Special Needs, Families
3 cr. Undergraduate/Graduate.
Introduction to etiology, historic background, current service provisions, and issues and trends as related to infants, toddlers, and preschoolers with disabilities and their families.
Prerequisites: jr st & admis to School of Educ; or grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 630G Survey of EC Intervention: Young Children with Special Needs, Families
3 cr. Undergraduate/Graduate.
Introduction to etiology, historic background, current service provisions, and issues and trends as related to infants, toddlers, and preschoolers with disabilities and their families.
Prerequisites: jr st & admis to School of Educ; or grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 631 Methods for Teaching Commun Skills to Students with Severe Disabilities
3 cr. Undergraduate/Graduate.
Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities.
Prerequisites: sr st; EXCEDUC 665(410)(P), COMSDIS 240(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 631G Methods for Teaching Commun Skills to Students with Severe Disabilities
3 cr. Undergraduate/Graduate.
Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities.
Prerequisites: sr st; EXCEDUC 665(410)(P), COMSDIS 240(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 633 Interdisciplinary Team Field Experience in Urban Settings
2 cr. Undergraduate/Graduate.
Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings.
Prerequisites: jr st; EXCEDUC 634(C).
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 633G Interdisciplinary Team Field Experience in Urban Settings
2 cr. Undergraduate/Graduate.
Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings.
Prerequisites: jr st; EXCEDUC 634(C).
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
Prerequisites: jr st.
Course Rules: EXCEDUC 634, OCCTHPY 634, & COMSDIS 634 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 634G Collaborative Consultation/Teaming-Serving Young Children with Disabilities
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
Prerequisites: jr st.
Course Rules: EXCEDUC 634, OCCTHPY 634, & COMSDIS 634 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 635 Individualized Planning & Instructional Methods
2-3 cr. Undergraduate/Graduate.
Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling.
**Prerequisites:** jr st; admis to Post-Bac cert prog or cons instr; EXCEDUC 487(C) & EXCEDUC 587(C) or cons instr.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 635G Individualized Planning & Instructional Methods
2-3 cr. Undergraduate/Graduate.
Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling.
**Prerequisites:** jr st; admis to Post-Bac Cert prog or cons instr; EXCEDUC 487(C) & EXCEDUC 587(C) or cons instr.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 636 Curriculum Accommodations
2-3 cr. Undergraduate/Graduate.
Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing individual adaptations and modifications.
**Prerequisites:** jr st; admis to Post-Bac Cert prog or cons instr; EXCEDUC 635(P); EXCEDUC 488(C) & EXCEDUC 588(C) or cons instr.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 636G Curriculum Accommodations
2-3 cr. Undergraduate/Graduate.
Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing individual adaptations and modifications.
**Prerequisites:** jr st; admis to Post-Bac Cert prog or cons instr; EXCEDUC 635(P); EXCEDUC 488(C) & EXCEDUC 588(C) or cons instr.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 644 Enhancing Literacy Learning for Diverse Learners:
3 cr. Undergraduate/Graduate.
Teaching reading and writing to diverse learners.
**Prerequisites:** currently teaching with at least 2 yrs experience; cons instr.
**Course Rules:** Jointly offered with & subtitles count as repeat of same title of CURRINS 644. CURRINS 644 & EXCEDUC 644 may be retaken with change of topic to combined 9 cr max.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 644G Enhancing Literacy Learning for Diverse Learners:
3 cr. Undergraduate/Graduate.
Teaching reading and writing to diverse learners.
**Prerequisites:** currently teaching with at least 2 yrs experience; cons instr.
**Course Rules:** Jointly offered with & subtitles count as repeat of same title of CURRINS 644. CURRINS 644 & EXCEDUC 644 may be retaken with change of topic to combined 9 cr max.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 647 Early Childhood Special Education Field Experience: 0 to 3 Yrs
3 cr. Undergraduate/Graduate.
Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs.
**Prerequisites:** jr st; admis to ExcEduc prog.
**Course Rules:** May be retaken to 9 cr max.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 647G Early Childhood Special Education Field Experience: 0 to 3 Yrs
3 cr. Undergraduate/Graduate.
Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs.
**Prerequisites:** jr st; admis to ExcEduc prog.
**Course Rules:** May be retaken to 9 cr max.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 648 Early Childhood Special Education Field Experience: Preschool
3 cr. Undergraduate/Graduate.
Practicum provides urban teaching experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families.
**Prerequisites:** jr st; admis to ExcEduc prog.
**Course Rules:** May be retaken to 9 cr max.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 648G Early Childhood Special Education Field Experience: Preschool
3 cr. Undergraduate/Graduate.
Practicum provides urban teaching experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families.
**Prerequisites:** jr st; admis to ExcEduc prog.
**Course Rules:** May be retaken to 9 cr max.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

EXCEDUC 649 Early Childhood Special Education Field Experience: Primary
3 cr. Undergraduate/Graduate.
Practicum provides urban teaching experiences in primary school-age programs to develop skills for working with 1st to 3rd graders with special needs and their families.
**Prerequisites:** jr st; admis to ExcEduc prog.
**Course Rules:** May be retaken to 9 cr max.
**Last Taught:** Spring 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/
EXCEDUC 649G Early Childhood Special Education Field Experience: Primary
3 cr. Undergraduate/Graduate.
Practicum provides urban teaching experiences in primary school-age programs to develop skills for working with 1st to 3rd graders with special needs and their families.
Prerequisites: jr st; admis to ExcEduc prog.
Course Rules: May be retaken to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 651 Working With Families in Urban Communities
3 cr. Undergraduate/Graduate.
Familial and ecological factors affecting individuals with disabilities and their caregivers including in-depth experiences with a family who has a young child with special needs.
Prerequisites: jr st.
Last Taught: Spring 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 651G Working With Families in Urban Communities
3 cr. Undergraduate/Graduate.
Familial and ecological factors affecting individuals with disabilities and their caregivers including in-depth experiences with a family who has a young child with special needs.
Prerequisites: jr st.
Last Taught: Spring 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 652 Developmental Evaluation of Young Children with Disabilities
3 cr. Undergraduate/Graduate.
The major functions of assessment used by Early Childhood Special Educators.
Prerequisites: jr st, EXCEDUC 651(P).
Last Taught: Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 652G Developmental Evaluation of Young Children with Disabilities
3 cr. Undergraduate/Graduate.
The major functions of assessment used by Early Childhood Special Educators.
Prerequisites: jr st, EXCEDUC 651(P).
Last Taught: Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 655 Introduction to Education of Individuals Who are Deaf and Hard of Hearing
3 cr. Undergraduate/Graduate.
Overview of educational programs and policies for pre K-12 students who are deaf and hard of hearing.
Prerequisites: jr st.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 655G Introduction to Education of Individuals Who are Deaf and Hard of Hearing
3 cr. Undergraduate/Graduate.
Overview of educational programs and policies for pre K-12 students who are deaf and hard of hearing.
Prerequisites: jr st.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 662 Collaborative Strategies
3 cr. Undergraduate/Graduate.
Provides the teacher with techniques that will assist in establishing relationships with other professionals, parents, and community agencies.
Prerequisites: jr st; EXCEDUC 300(P), EXCEDUC 600(P), or EXCEDUC 605(P); admis to Post-Bac Cert prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 662G Collaborative Strategies
3 cr. Undergraduate/Graduate.
Provides the teacher with techniques that will assist in establishing relationships with other professionals, parents, and community agencies.
Prerequisites: jr st; EXCEDUC 300(P), EXCEDUC 600(P), or EXCEDUC 605(P); admis to Post-Bac Cert prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 665 Language and Literacy for the Exceptional Student
3 cr. Undergraduate/Graduate.
An overview of the theoretical underpinnings for language and literacy practices, assessments, and methods of facilitating growth in students with exceptional education needs.
Prerequisites: EXCEDUC 300 or equiv; COMSDIS 240; jr st & admis to School of Educ or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 665G Language and Literacy for the Exceptional Student
3 cr. Undergraduate/Graduate.
An overview of the theoretical underpinnings for language and literacy practices, assessments, and methods of facilitating growth in students with exceptional education needs.
Prerequisites: EXCEDUC 300 or equiv; COMSDIS 240; jr st & admis to School of Educ or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 671 Behavior Support & Intervention for Mid/High Students with Disabilities
3 cr. Undergraduate/Graduate.
Techniques in arranging academic and social environments for adolescents having learning and social problems.
Prerequisites: admis to Middle/High prog; cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 671G Behavior Support & Intervention for Mid/High Students with Disabilities
3 cr. Undergraduate/Graduate.
Techniques in arranging academic and social environments for adolescents having learning and social problems.
Prerequisites: admitted to Middle/High prog; cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 676 Learning Strategies II: Cognitv/Metacognitv Intervntns-Mild Handicpdp Stdnts
3 cr. Undergraduate/Graduate.
In-depth analysis of strategy instruction for use with adolescents with mild handicaps.
Prerequisites: jr st; EXCEDUC 675; cons instr; teacher certification.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 676G Learning Strategies II: Cognitv/Metacognitv Intervntns-Mild Handicpdp Stdnts
3 cr. Undergraduate/Graduate.
In-depth analysis of strategy instruction for use with adolescents with mild handicaps.
Prerequisites: jr st, EXCEDUC 675; cons instr; teacher certification.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 679 Critical Issues in Transition Planning for Students with Disabilities
3 cr. Undergraduate/Graduate.
Understanding transition planning and tools to effectively assist students with disabilities in the transition process.
Prerequisites: jr st.
Course Rules: Counts as repeat of EXCEDUC 589 with similar topic.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 679G Critical Issues in Transition Planning for Students with Disabilities
3 cr. Undergraduate/Graduate.
Understanding transition planning and tools to effectively assist students with disabilities in the transition process.
Prerequisites: jr st.
Course Rules: Counts as repeat of EXCEDUC 589 with similar topic.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 680 Literacy I
3 cr. Undergraduate/Graduate.
Observing and assessing reading and writing; implementing basic strategies toward supporting reading and writing development; becoming a motivated reader/writer.
Prerequisites: admitted to the Post-Bac Cert prog or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 680G Literacy I
3 cr. Undergraduate/Graduate.
Observing and assessing reading and writing; implementing basic strategies toward supporting reading and writing development; becoming a motivated reader/writer.
Prerequisites: admitted to the Post-Bac Cert prog or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 681 Literacy II
3 cr. Undergraduate/Graduate.
Organizing and implementing literacy instruction. Addressing the individual strengths and needs in communication of students with disabilities.
Prerequisites: EXCEDUC 680(P); admitted to the Post-Bac Cert prog or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 681G Literacy II
3 cr. Undergraduate/Graduate.
Organizing and implementing literacy instruction. Addressing the individual strengths and needs in communication of students with disabilities.
Prerequisites: EXCEDUC 680(P); admitted to the Post-Bac Cert prog or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 682 Language and Literacy in Early Childhood Special Education
3 cr. Undergraduate/Graduate.
Methods in language and literacy instruction for children with special needs including study of first and second language development in children birth through age eight.
Prerequisites: jr st; admitted to Post-Bac Cert prog, or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 682G Language and Literacy in Early Childhood Special Education
3 cr. Undergraduate/Graduate.
Methods in language and literacy instruction for children with special needs including study of first and second language development in children birth through age eight.
Prerequisites: jr st; admitted to Post-Bac Cert prog, or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 684 Multisensory Structured Language Teaching
3 cr. Undergraduate/Graduate.
Advanced study of dyslexia and how to implement remedial approaches to literacy. Includes a required practicum experience.
Prerequisites: Post-bac status or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 684G Multisensory Structured Language Teaching
3 cr. Undergraduate/Graduate.
Advanced study of dyslexia and how to implement remedial approaches to literacy. Includes a required practicum experience.
Prerequisites: Post-bac status or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 685 Advanced Methods in Learning Disabilities
3 cr. Undergraduate/Graduate.
Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.
Prerequisites: grad st or admitted to Post-Bac Cert prog or cons instr.
Course Rules: Counts as repeat of EXCEDUC 589 with same topic.
Last Taught: Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 685G Advanced Methods in Learning Disabilities
3 cr. Undergraduate/Graduate.
Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.
Prerequisites: grad st or admis to Post Bac Cert prog or cons instr.
Course Rules: Counts as repeat of EXCEDUC 589 with same topic.
Last Taught: Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 699 Independent Reading
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st & admis to School of Educ or grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 699G Independent Reading
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st & admis to School of Educ or grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 703 Job Development and On the Job Support for Individuals with Disabilities
3 cr. Graduate.
Overview of the career development process and a person-centered framework for job development and job support.
Prerequisites: grad st, EXCEDUC 679(P) or cons instr.
Last Taught: Fall 2019, Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 705 Transition Assessment for Individuals with Disabilities
3 cr. Graduate.
Transition assessments related to training, education, employment, and living skills for students with disabilities.
Prerequisites: grad st, EXCEDUC 679(P); or cons instr.
Last Taught: Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 707 Linking Academics and Self-Determination to Transition Planning
3 cr. Graduate.
Youth development and the importance of preparing youth to take the lead in their education, career development, and community participation.
Prerequisites: grad st; EXCEDUC 679(P); or cons instr.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 708 Student, Family & Community Involvement in the Transition Planning Process
3 cr. Graduate.
This course is designed to explore trends & strategies relative to the development of self determination skills, person-centered planning & educators as consultants in transition planning.
Prerequisites: grad st; EXCEDUC 679(P); cons instr.
Last Taught: Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 715 Issues and Trends in Exceptional Education
3 cr. Graduate.
Designed for students with entry level experience in exceptional education, the course reviews the exceptional education populations, methodology and current issues and trends.
Prerequisites: grad st; EXCEDUC 300 or equiv or cons dept.
Last Taught: Summer 2020, Fall 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 730 Assistive and Instructional Technology for Students with Disabilities
3 cr. Graduate.
Introduction to special education technology emphasizing applications for students with disabilities and their teachers.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 735 Technology & Instruction for Students with Disabilities
3 cr. Graduate.
Curriculum integration models and technology integration strategies for enhancing educational outcomes of students with disabilities.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 740 Universal Design for Learning: Research and Practice
3 cr. Graduate.
Study of research in universal design for learning and design of classroom interventions that enhance the performance of students with disabilities and their non-handicapped peers.
Prerequisites: grad st.
Course Rules: Counts as repeat of EXCEDUC 779 with same topic.
Last Taught: Spring 2011, Summer 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 760 Foundations of Autism Spectrum Disorders
3 cr. Graduate.
Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.
Prerequisites: grad st
Last Taught: Fall 2019, Summer 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 761 Methods for Working with Individuals with Autism
3 cr. Graduate.
Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.
Prerequisites: grad st; EXCEDUC 760(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 762 Academic/Social Challenges of Individuals with ASD: Adv. Interventions
3 cr. Graduate.
Intervention and Supports for Individuals with high functioning Autism and Asperger Syndrome.
Prerequisites: grad st; EXCEDUC 760(P) and EXCEDUC 761(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 755 Assistive Technology Service Delivery in Schools
3 cr. Graduate.
Introduction to legal, legislative, and policy foundations guiding the creation and delivery of assistive technology services in schools, clinics and agencies.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 770 Seminar: Research on Individuals With Special Needs
3 cr. Graduate.
Recent research relevant to individuals with handicapping conditions.
Prerequisites: grad st; EXCEDUC 300(P) or EXCEDUC 600(P).
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 771 Field Work with Students Having Exceptional Education Needs
3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 772 Field Work with Students Having Hearing Impairments
1-3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Summer 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 773 Field Work with Students Having Cognitive Disabilities
3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 775 Field Work: Individuals with Autism Spectrum Disorders
3 cr. Graduate.
Prerequisites: grad st; EXCEDUC 760(P) & EXCEDUC 761(C) or cons instr.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 776 Fieldwork with Students Having Early Childhood-Exceptional Education Needs
1-3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 777 Fieldwork in Assistive Technology
1-6 cr. Graduate.
Provides students with a school- or clinic-based experience in the delivery of assistive technology services.
Prerequisites: grad st & cons instr.
Course Rules: EXCEDUC 777 & OCCTHPY 777 are jointly offered; they count as repeats of one another. May be retaken for 9 cr max.
Last Taught: Spring 2016, Fall 2014, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 778 Field Work with Students Having Learning Disabilities
3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 779 Current Topics in Exceptional Education:
1-3 cr. Graduate.
Specific topic announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 790 Administration of Pupil Services
3 cr. Graduate.
Review and analysis of pupil service programs in K-12 education, considers historical, legal and professional proactive standards.
Prerequisites: grad st; AD LDSP 710(P); AD LDSP 752(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 799 Independent Reading
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 801 Urban Education: Doctoral Seminar in Exceptional Education
3 cr. Graduate.
Examination of research on exceptional education in urban settings including topics related to students in general and special education environments.
Prerequisites: grad st; admis to urban educ doctoral prog; EDUC 701.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 815 Capstone Course In Special Education
3 cr. Graduate.
Culmination of course work during the graduate program leading to the development of the thesis or graduate project.
Prerequisites: grad st; EXCEDUC 715 (P).
Last Taught: Fall 2014, Summer 2014, Fall 2013, Summer 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 880 Proseminar in Urban Education: Exceptional Education
3 cr. Graduate.
An examination of selected problems and issues in urban education.
Prerequisites: grad st; admis to Urban Educ doctoral prog.
Current Offerings: https://catalog.uwm.edu/course-search/

EXCEDUC 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2019, Fall 2015, Summer 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
EXCEDUC 999 Independent Reading
1-3 cr. Graduate.
For benefit of superior graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2017, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

Film Studies (FILMSTD)

FILMSTD 111 Entertainment Arts: Film, Television, and the Internet
3 cr. Undergraduate.
History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.
Prerequisites: none.
Course Rules: ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 192 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 205 History of Film I: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 206 History of Film II: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
FILMSTD 212 Intermediate Topics in Film Studies:
3 cr. Undergraduate.
Stylistic, generic, historical, or theoretical issues in film studies.
Prerequisites: soph st or English 290(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 286 Writing about Film and Television
3 cr. Undergraduate.
Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: English 286 & FilmStd 286 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 290 Introduction to Film Studies
3 cr. Undergraduate.
Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking.
Prerequisites: none.
Course Rules: English 290 & FilmStd 290 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 291 Introduction to Television Studies
3 cr. Undergraduate.
The forms, images, and narratives particular to television.
Prerequisites: none.
Course Rules: English 291 & FilmStd 291 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 292 Classic Dramas in Film:
1 cr. Undergraduate.
A sampling of great plays in film versions, with performances by acclaimed actors.
Prerequisites: none.
Course Rules: Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 293 Literature and Media:
3 cr. Undergraduate.
A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies.
Prerequisites: soph st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 294 Game Culture
3 cr. Undergraduate.
Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.
Prerequisites: GER OWC-A.
Course Rules: Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 295 Women and Film
3 cr. Undergraduate.
A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture.
Prerequisites: soph st.
Course Rules: English 295 & FilmStd 295 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: Retakable w/change in topic.
Last Taught: Fall 2019, Spring 2018, Fall 2016, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none, except as required for specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 305 Film Analysis I: Method and Theory
3 cr. Undergraduate/Graduate.
Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists.
Prerequisites: jr st.
Course Rules: ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 305G Film Analysis I: Method and Theory
3 cr. Undergraduate/Graduate.
Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists.
Prerequisites: jr st.
Course Rules: ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
FILMSTD 306 Film Analysis II: Method and Theory
3 cr. Undergraduate/Graduate.
Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes.
Prerequisites: jr st.
Course Rules: ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 306G Film Analysis II: Method and Theory
3 cr. Undergraduate/Graduate.
Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes.
Prerequisites: jr st.
Course Rules: ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 307 Film Directors:
3 cr. Undergraduate/Graduate.
Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.
Prerequisites: jr st; ArtHist 205(R) or 305(R).
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 307G Film Directors:
3 cr. Undergraduate/Graduate.
Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.
Prerequisites: jr st; ArtHist 205(R) or 305(R).
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 308 Film Styles:
3 cr. Undergraduate/Graduate.
A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 308G Film Styles:
3 cr. Undergraduate/Graduate.
A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 312 Topics in Film Studies:
3 cr. Undergraduate.
Study of stylistic, generic, historical, or theoretical issues in film studies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P).
Course Rules: Retakable w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 316 World Cinema:
3 cr. Undergraduate.
National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.
Prerequisites: jr st or English 290(P); satisfaction of OWC-A.
Course Rules: Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 320 Studies in Film Authorship:
3 cr. Undergraduate.
The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.
Prerequisites: jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 329 Film and Literature
3 cr. Undergraduate.
The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. English 329 & FilmStd 329 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
FILMSTD 329G Film and Literature
3 cr. Undergraduate/Graduate.
Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.
Prerequisites: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.
Course Rules: English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 330 Film and Drama:
3 cr. Undergraduate.
Capabilities and limitations of narrative film and drama, emphasizing the distinctiveness of each artistic mode.
Prerequisites: jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. English 330 & FilmStd 330 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 350 Global Jewish Film and Television:
3 cr. Undergraduate.
Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.
Prerequisites: jr st.
Course Rules: FILMSTD 350 & JEWISH 350 are jointly offered; with the same subtitle, they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2011, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 380 Media and Society:
3 cr. Undergraduate/Graduate.
An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary.
Prerequisites: jr st, English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 380G Media and Society:
3 cr. Undergraduate/Graduate.
An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary.
Prerequisites: jr st, English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 383 Cinema and Genre:
3 cr. Undergraduate/Graduate.
Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 383G Cinema and Genre:
3 cr. Undergraduate/Graduate.
Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 390 Classical Film Criticism and Theory
3 cr. Undergraduate/Graduate.
Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.
Prerequisites: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.
Course Rules: English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 390G Classical Film Criticism and Theory
3 cr. Undergraduate/Graduate.
Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.
Prerequisites: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.
Course Rules: English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 391 Television Criticism and Theory
3 cr. Undergraduate/Graduate.
Survey of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.
Course Rules: English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
FILMSTD 391G Television Criticism and Theory
3 cr. Undergraduate/Graduate.
Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; English 290(P) or cons instr.
Course Rules: English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 392G Contemporary Film Criticism and Theory:
3 cr. Undergraduate/Graduate.
Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 392 & FilmStd 392 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 393 Entertainment Industries:
3 cr. Undergraduate.
In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices.
Prerequisites: Jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.
Course Rules: English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 394G Theories of Mass Culture:
3 cr. Undergraduate/Graduate.
A survey of theories of mass culture relative to film from the late 19th century to the present.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 394G Theories of Mass Culture:
3 cr. Undergraduate/Graduate.
A survey of theories of mass culture relative to film from the late 19th century to the present.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 395 Feminist Film Criticism and Theory:
3 cr. Undergraduate/Graduate.
Theories of representation and spectatorship that focus on the position of women in film, television, and/or video.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; English 295(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 395 & FilmStd 395 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 395G Feminist Film Criticism and Theory:
3 cr. Undergraduate/Graduate.
Theories of representation and spectatorship that focus on the position of women in film, television, and/or video.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; English 295(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 395 & FilmStd 395 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 412 Global Cinemas - Cinematic Practices in the Context of Globalization:
3 cr. Undergraduate/Graduate.
Cinema within global transformations that reshape the way we think about film and its history; cinema's changing impact beyond national borders.
Prerequisites: Jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 412G Global Cinemas - Cinematic Practices in the Context of Globalization:
3 cr. Undergraduate/Graduate.
Cinema within global transformations that reshape the way we think about film and its history; cinema's changing impact beyond national borders.
Prerequisites: Jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/
FILMSTD 489 Internship in Film Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of film studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in FilmStd; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for 40 hrs work. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2013, Fall 2011, Fall 2010, Summer 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specific enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 669 Screening Sexuality:
3 cr. Undergraduate/Graduate.
Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max. Repeat of English 312 w/same topic.
Last Taught: Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 669G Screening Sexuality:
3 cr. Undergraduate/Graduate.
Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max. Repeat of English 312 w/same topic.
Last Taught: Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 690 Seminar in Contemporary Cinema and Media:
3 cr. Undergraduate.
Contemporary theories and criticism of cinema, TV and the Internet since 1960. Approaches considered include semiotics, structuralism, Marxism, feminism, psychoanalysis, cultural studies, queer theory.
Prerequisites: sr st; English 390(P) or English 391(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 699 Independent Work
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Film Studies faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Film Studies dir or asst dir.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic.
Last Taught: Fall 2018, Fall 2017, Spring 2010, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 700 Teaching Film Studies:
3 cr. Graduate.
Theory of and approaches to teaching film studies on the college level.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 742 Media Culture
3 cr. Graduate.
A graduate level introduction to media culture, with an emphasis on forms and theories of media culture from the mid-19th century to the present.
Prerequisites: grad st.
Course Rules: English 742 & FilmStd 742 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 743 Film Studies:
3 cr. Graduate.
A graduate-level introduction to film studies, including methods of film analysis and approaches to the history of film.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 743 & FilmStd 743 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 876 Seminar in Media Culture:
3 cr. Graduate.
Seminar focused on a broad issue related to media culture or specific forms of media, including alternative textual production, cinema, and digital culture.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 876 & FilmStd 876 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FILMSTD 877 Seminar in Film Theory:
3 cr. Graduate.
A graduate-level seminar in film theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 877 & FilmStd 877 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
Film, Video, Animation and New Genres (FILM)

FILM 107 Digital Filmmaking for Non-Majors
3 cr. Undergraduate.
Fundamentals of digital filmmaking production, including pre-production, cinematography, and editing.
Prerequisites: none.
Course Rules: Not open to Film Majors.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 110 Foundation Topics:
3 cr. Undergraduate.
Introduction to the art of cinema through screenings, critical viewing, production projects and writing assignments arranged under a chosen theme.
Prerequisites: open to Film BFA, Film Minor or Animation BA students.
Course Rules: May be repeated with change in topic to a max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 114 Film and Experience: The Filmmaker and the Viewer
3 cr. Undergraduate.
Consideration of film as an experience–aesthetic, physical, psychological, social, and historical–for both the filmmaker and the viewer.
Prerequisites: Open to Film BFA and Animation BA majors, Film minors; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 116 Listening and Recording
3 cr. Undergraduate.
Development of perceptual and expressive competencies using low-cost tools, fieldwork, and the web in response to historical and contemporary issues facing media artists.
Prerequisites: Open to Film BFA and Animation BA majors, Film minors; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 117 Filmmaking Technologies and Techniques
3 cr. Undergraduate.
Fundamentals of still & motion picture image making, incl lighting, exposure, composition, digital transfer.
Prerequisites: Open to Film BFA and Animation BA majors; Film, Video, Animation and New Genres Minors; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 118 Sound and Image
3 cr. Undergraduate.
A time-based media arts production course incorporating preceding core Film courses (Film 114, 116, 117), furthering skills and imagination in the integration of image and sound.
Prerequisites: Film 114(P), 116(P), 117(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service learning component. Jointly offered with & counts as repeat of Art 150.
General Education Requirements: A, CD
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 180 Foundation Production: Fiction
6 cr. Undergraduate.
A time-based production course that builds on the theme of fiction strategies to develop students’ skills and creativity in the creation of artful moving image production.
Prerequisites: open to Film BFA, Film Minor or Animation BA students.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 181 Foundation Production: Nonfiction
6 cr. Undergraduate.
A time-based production course that builds on the theme of nonfiction strategies to develop students’ skills and creativity in the creation of artful moving image production.
Prerequisites: open to Film BFA, Film Minor or Animation BA students.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 201 Introduction to Experimental Media Arts
3 cr. Undergraduate.
Survey of independent media art production in film, video, photography and emerging media from the artist’s point of view. Lectures, screenings, and workshops exploring ideas and techniques relevant to the making of personal statements.
Prerequisites: Open to Film BFA and Animation BA majors, Film, Video, Animation and New Genres Minors; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 203 Media Workshop:
3 cr. Undergraduate.
Lab tutorial consisting of intermedia exercises and class projects. Specific credits announced in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg in content to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 210 Concepts of Production in the Media Arts
3 cr. Undergraduate.
Introduction to the basic elements of cinema and related media in an inter-arts context through the development of critical and practical skills.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/
FILM 220 16mm Filmmaking II
3 cr. Undergraduate.
Pre-portfolio studio in 16mm film production.
Prerequisites: Film 117(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 221 Basic Elements of Filmmaking II
6 cr. Undergraduate.
Theory and practice of 16mm non-sync sound techniques. Emphasis on project development, cinematography, editing, sound recording, audio transfers and mixing.
Prerequisites: grade B or above in Film 220; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 222 Introduction to Digital Filmmaking
3 cr. Undergraduate.
Pre-portfolio studio in digital filmmaking and editing techniques.
Prerequisites: FILM 118(P) or consent of instructor.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 231 Concept Development for Film Practice
3 cr. Undergraduate.
A practice-driven course on developing skills for conceptualizing and writing for short-form cinema.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 232 Animation I
3 cr. Undergraduate.
Introduction to single-frame cinematic principles and techniques including drawing, collage, and kinetic analysis for short animated film projects.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 234 Introduction to the Screenplay
3 cr. Undergraduate.
Approaches to screenwriting from both artistic and professional points of view from the cultivation of an idea to the realization of a scenario.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 250 Internship/Professional Practice
3 cr. Undergraduate.
This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.
Prerequisites: consent of instructor.
Course Rules: May be retaken to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 251 Theory/Practice Workshop:
3-4 cr. Undergraduate.
Development of techniques for projects in the theory and practice of media arts.
Prerequisites: none.
Course Rules: May be retaken w/chg in content to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 255 Introduction to Digital Arts
3 cr. Undergraduate.
Pre-portfolio studio in digital art practices.
Prerequisites: admits to Pre-Film/Film prog & Film 116(P), 117(P); & either 114(214)(P) or 210(P); or admis to Inter-Arts/IAT prog & Art 118(P) & Music 220(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 297 Study Abroad:
1-12 cr. Undergraduate.
Production and special problems designed to provide relevant course work for a study abroad program in the media arts.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Fall 2014, Spring 2013, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 299 Independent Study
1-6 cr. Undergraduate.
Individual program of supervised study in media arts theory & practice.
Prerequisites: cons instr.
Course Rules: May be retaken for cr.
Last Taught: Summer 2018, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 301 Conversations with Filmmakers and Critics
3 cr. Undergraduate.
Lectures, screenings, and discussions by contemporary filmmakers and critics. Subjects of presentation will include the contemporary state of the art, the condition of the industry, and the relations of film to a critique of the culture.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 303 Current Topics in Media Arts Production:
3 cr. Undergraduate.
Lectures, screening, discussions, and workshops in media arts production from the artist's point of view. Development of ideas/proposals for possible production in subsequent film department courses.
Prerequisites: Film 201(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
FILM 305 Digital Cinema and the Computer
3 cr. Undergraduate.
Relation of digital cinema to the cultural, philosophical, and technical implications of computing technology.
Prerequisites: none.
General Education Requirements: A, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 314 Topics in Conceptual Studies:
3 cr. Undergraduate.
Consideration of issues in critical studies including ethnographic film, found-footage filmmaking, experimental documentary or surrealist film.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Summer 2011, Fall 2010, Summer 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 316 Filmmaker as Theorist/Practitioner:
3 cr. Undergraduate.
Examines filmmakers particularly engaged in theory/practice investigations of film form including Chantal Ackerman, Jean-Luc Godard, Sergei Eisenstein, Laura Mulvey & Trinh T. Minh-ha.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 318 Film and the Visual and Performing Arts:
3 cr. Undergraduate.
Consideration of film’s relationship to a specific art form, its formal similarities and historical intersections including film & painting, film & dance, film & music.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 319 Film Genres:
3 cr. Undergraduate.
Formal investigation of what comprises a film genre across both national & international contexts. Critical writing & production assignments will foreground conventions & their transformations in film history.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 320 Structures of Film
3 cr. Undergraduate.
Advanced examination of structural dimensions in film, including space, time, causality, image, and sound. Practical techniques explore structural possibilities for creative expression in film.
Prerequisites: Film 114(214)(P) & 210(P); or cons instr.
Last Taught: Fall 2010, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 341 Theory/Practice Seminar:
3 cr. Undergraduate.
Theoretical/practical approaches to film and video production.
Prerequisites: advanced to Film BFA major milestone, or consent of instructor.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 380 Media Arts Module:
3 cr. Undergraduate.
Post-foundation course introducing specialized production skills in film, video, audio or new genres.
Prerequisites: completion or concurrent enrollment in one or more of the following: FILM 220, FILM 222, FILM 232, or FILM 255; or consent of instructor.
Course Rules: May be retaken with change in topic to max of 15 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 399 Advanced Independent Study
1-6 cr. Undergraduate.
Individual program of supervised study for the advanced student of film and/or video.
Prerequisites: admis to upper-level film classes per portfolio review & cons instr.
Course Rules: May be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 410 Junior Project
6 cr. Undergraduate.
Individual production projects in film or video facilitated by critiques and technical demonstrations tailored to student needs.
Prerequisites: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on grade point average in major.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 420 Intermediate Media Arts Module:
3 cr. Undergraduate/Graduate.
Intermediate level course in specialized production skills in film, video, audio or new genres.
Prerequisites: admis to upper level course per portfolio review & cons instr. In case of over-enrollment, admission based on gpa in major.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 420G Intermediate Media Arts Module:
3 cr. Undergraduate/Graduate.
Intermediate level course in specialized production skills in film, video, audio or new genres.
Prerequisites: admis to upper level course per portfolio review & cons instr. In case of over-enrollment, admission based on gpa in major.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
**FILM 434 Film Aesthetics:**
3 cr. Undergraduate.
Consideration of a particular aesthetic aspect of film including performance, sound, decor, frame/sequence, color, narrative & narration, temporality.

**Prerequisites:** jr st., Film 210(P); or cons instr.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Spring 2018.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 450 Advanced Internship/Professional Practice**
1-6 cr. Undergraduate/Graduate.
This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.

**Prerequisites:** admis to upper-level Film classes per portfolio review, cons instr.
**Course Rules:** May be retaken to max of 9 cr.
**Last Taught:** Summer 2020, Spring 2020.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 450G Advanced Internship/Professional Practice**
1-6 cr. Undergraduate/Graduate.
This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.

**Prerequisites:** admis to upper-level Film classes per portfolio review, cons instr.
**Course Rules:** May be retaken to max of 9 cr.
**Last Taught:** Summer 2020, Spring 2020.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 455 Integrated Film/Video Exploration**
6 cr. Undergraduate/Graduate.
A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic.

**Prerequisites:** jr st. Film majors: portfolio review and/or cons instr; non-film majors: cons instr.
**Course Rules:** Jointly offered with ArtHist/English/JMC 310.
**Last Taught:** Spring 2010, Spring 2009.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 455G Integrated Film/Video Exploration**
6 cr. Undergraduate/Graduate.
A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic.

**Prerequisites:** jr st. Film majors: portfolio review and/or cons instr; non-film majors: cons instr.
**Course Rules:** Jointly offered with ArtHist/English/JMC 310.
**Last Taught:** Spring 2010, Spring 2009.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 460 Advanced Media Arts Module:**
3 cr. Undergraduate/Graduate.
Advanced-level course in specialized production skills in film, video, audio or new genres.

**Prerequisites:** admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Spring 2020, Fall 2019.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 460G Advanced Media Arts Module:**
3 cr. Undergraduate/Graduate.
Advanced-level course in specialized production skills in film, video, audio or new genres.

**Prerequisites:** admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Spring 2020, Fall 2019.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 470 Advanced Media Arts Workshop:**
1-6 cr. Undergraduate/Graduate.
Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval.

**Prerequisites:** Film 389(P); or grad st; or cons instr.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 1999, Fall 1991.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 470G Advanced Media Arts Workshop:**
1-6 cr. Undergraduate/Graduate.
Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval.

**Prerequisites:** Film 389(P); or grad st; or cons instr.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 1999, Fall 1991.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 497 Study Abroad:**
1-12 cr. Undergraduate.
Production and special problems designed to provide relevant course work for a study abroad program in the media arts.

**Prerequisites:** admis to upper-level Film classes per portfolio review, or cons instr.
**Course Rules:** May be retaken w/chg in topic to max of 12 cr.
**Last Taught:** Fall 2017, Spring 2017, Spring 2016, Fall 2015.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 509 Senior Project I**
3 cr. Undergraduate.
Pre-production/production of individual media arts projects facilitated by critiques and work sessions.

**Prerequisites:** min 12 cr of upper-level film/video/animation/new genres electives, including 3 cr. of Portfolio Production electives; or cons instr.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)

**FILM 510 Senior Project II**
6 cr. Undergraduate.
Continuation of capstone project started in Film 509. Emphasis on production and post-production, facilitated by critiques, work sessions and preparations for a public presentation.

**Prerequisites:** Successful completion of Film 509(P); or cons instr.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [link](https://catalog.uwm.edu/course-search/)
FILM 512 Senior Project in Conceptual Studies
6 cr. Undergraduate.
Capstone seminar investigates and interrogates relationship between filmmaking, theory and history. Archival research and critical analysis will produce final multimedia project.
Prerequisites: Film 320(P), 455(P).
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 700 Professional Practice: Production
3 cr. Graduate.
Professional production internship with area film-related enterprise to develop specialized technical skills or practical experience in film exhibition.
Prerequisites: grad st & cons advising faculty member.
Course Rules: May be repeated to max of 9 cr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 710 Graduate Film Studio/Seminar I
3 cr. Graduate.
Each student to pursue a film production project to completion. Lectures and readings in seminar format to address issues facing independent film production and distribution.
Prerequisites: grad st.
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 712 Graduate Film Studio/Seminar II
3 cr. Graduate.
Faculty advised film production studio course. Instruction in advanced production skills and directed reading relevant to the nature of proposed film projects.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 714 Graduate Film Studio/Seminar III
3 cr. Graduate.
Faculty advised film production studio course to introduce and familiarize students with specific crew member responsibilities of collaborative filmmaking.
Prerequisites: second year Cinematic Arts graduate student.
Course Rules: Retakeable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 720 Graduate Media Arts Workshop I
1-6 cr. Graduate.
Conceptualization and production of student-initiated media arts projects.
Prerequisites: grad st film
Course Rules: Retakeable to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 722 Graduate Media Arts Workshop II
1-6 cr. Graduate.
Conceptualization and production of student-initiated media arts projects. For 2nd-year MFA students.
Prerequisites: grad st; Film 720(P) or cons instr.
Course Rules: Retakeable to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 730 Advanced Research in Film I
3 cr. Graduate.
Faculty advised, pre-production research leading to the completion of a shooting script and production schedule for the thesis film project.
Prerequisites: grad st; two of the following: Film 710, 712 & 714.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 732 Advanced Research in Film II
3-6 cr. Graduate.
Independent study with selected faculty member adviser for the production and post-production phase of the thesis film project.
Prerequisites: grad st; Film 710(P), 712(P), 714(P), 730(P).
Course Rules: May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 760 Film/Video Module: Post-Production Sound
3 cr. Graduate.
Course in sound post-production for the media arts.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 799 Independent Graduate Study:
1-6 cr. Graduate.
Variable content. Supervised independent study, production and non-production for the grad student in film/video.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FILM 900 Graduate Studio
3 cr. Graduate.
Ongoing critique of individual studio research in students’ chosen medium(s). Emphasis on developing and maintaining interdisciplinary dialogue. Studio research, individual and group critiques required.
Prerequisites: first year Cinematic Arts graduate student.
Course Rules: Retakeable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Fine Arts-Interdepartmental (FINEART)

FINEART 299 Independent Study
1-6 cr. Undergraduate.
Individual program of supervised study in field of fine arts.
Prerequisites: cons instr.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/
FINEART 313 Programming for Artists I
3 cr. Undergraduate/Graduate.
An introduction to principles and applications of computer programming languages within art practice.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.
Course Rules: FineArt 313 & Art 313 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 313G Programming for Artists I
3 cr. Undergraduate/Graduate.
An introduction to principles and applications of computer programming languages within art practice.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.
Course Rules: FineArt 313 & Art 313 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 315 Scripted Interactivity I
3 cr. Undergraduate/Graduate.
An introduction to the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 315G Scripted Interactivity I
3 cr. Undergraduate/Graduate.
An introduction to the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 316 Interactive and Multimedia Art
3 cr. Undergraduate/Graduate.
An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies.
Prerequisites: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
Course Rules: Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2005, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 316G Interactive and Multimedia Art
3 cr. Undergraduate/Graduate.
An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies.
Prerequisites: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
Course Rules: Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2005, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 319 Hybrid Sculptural Forms:
3 cr. Undergraduate.
Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art.
Prerequisites: Admis to Art and Design prog or Inter-Arts/IAT prog, & Art 118(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max. Art 319 & FineArt 319 are jointly offered & count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 327 Digital Media Workshop:
3 cr. Undergraduate.
A concept oriented workshop in digital media.
Prerequisites: soph st, admis to Visual Art prog or Inter-Arts/IAT prog; or cons instr. See semester course schedule for additional prereq.
Course Rules: Art 327 & FineArt 327(351) are jointly offered & count as repeats of each other. May be retaken w/chg in topic change to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 353 Digital Media Seminar:
3 cr. Undergraduate.
Topics and critical issues centering on science and technology within the field of contemporary art. Student research and written/oral reports required.
Prerequisites: jr st, & admis to Inter-Arts/IAT prog or to Visual Art prog; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 399 Independent Study
1-6 cr. Undergraduate.
Individual program of supervised study in field of fine arts.
Prerequisites: cons instr.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 407 DIVAS Forum
1-3 cr. Undergraduate.
Explore contemporary issues in art & technology, engage in peer critique, view and evaluate exhibitions, performances and presentations.
Prerequisites: current Pre-DIVAS or DIVAS st; or cons instr.
Course Rules: May be retaken to max 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 410 IAT Junior Project
6 cr. Undergraduate.
Individual production projects in IAT facilitated by critiques and technical demonstrations tailored to student needs.
Prerequisites: jr st; successful completion of IAT portfolio review; or cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 411 Time Space II
3 cr. Undergraduate/Graduate.
Advanced temporal and spatial structures as applied to art practice.
Prerequisites: jr st, Fine Art 211(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
FINEART 411G Time Space II
3 cr. Undergraduate/Graduate.
Advanced temporal and spatial structures as applied to art practice.
Prerequisites: jr st, Fine Art 211(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 450 Electronic Portfolio and Assessment in Arts Education
1 cr. Undergraduate.
Presentation software, interactive multimedia, and Internet for creation of electronic portfolios for assessing proficiency in arts education. Exploration of assessment tools available to arts educators.
Prerequisites: admis to teacher cert. prog.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 489 Fine Arts Workshop I:
1-6 cr. Undergraduate/Graduate.
Project-oriented course of variable content and duration, focusing around special aspects of art, dance, film, music and theatre. An interdisciplinary approach will be used.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 489G Fine Arts Workshop I:
1-6 cr. Undergraduate/Graduate.
Project-oriented course of variable content and duration, focusing around special aspects of art, dance, film, music and theatre. An interdisciplinary approach will be used.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 501 IAT Senior Project
6 cr. Undergraduate.
Individual projects in IAT facilitated by critiques, work sessions, technical demonstrations tailored to student needs and preparation for public presentation or exhibition.
Prerequisites: Fine Art 410 & Sr st; successful completion of IAT portfolio review, or cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 511 Spatial Interactivity II
3 cr. Undergraduate/Graduate.
Advanced course focusing on interactive spatial installation and sculptural works. Work with sensors, video, audio and kinetic elements to create interactive systems.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Fine Art 311(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 511G Spatial Interactivity II
3 cr. Undergraduate/Graduate.
Advanced course focusing on interactive spatial installation and sculptural works. Work with sensors, video, audio and kinetic elements to create interactive systems.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Fine Art 311(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 513 Programming for Artists II
3 cr. Undergraduate/Graduate.
Advanced principles and applications of computer programming languages within art practice.
Prerequisites: Jr st, Fine Art 313(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 513G Programming for Artists II
3 cr. Undergraduate/Graduate.
Advanced principles and applications of computer programming languages within art practice.
Prerequisites: Jr st, Fine Art 313(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 515 Scripted Interactivity II
3 cr. Undergraduate/Graduate.
Advanced course focusing on the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Fine Art 315(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 515G Scripted Interactivity II
3 cr. Undergraduate/Graduate.
Advanced course focusing on the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc.
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Fine Art 315(P); or grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 551 Advanced Digital Media Workshop:
3 cr. Undergraduate/Graduate.
A short-term, concept oriented workshop in digital media.
Prerequisites: jr st, Fine Art 351(P); or grad st; or cons instr.
Course Rules: May be retaken with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 551G Advanced Digital Media Workshop:
3 cr. Undergraduate/Graduate.
A short-term, concept oriented workshop in digital media.
Prerequisites: jr st, Fine Art 351(P); or grad st; or cons instr.
Course Rules: May be retaken with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FINEART 553 Advanced Digital Media Seminar:
3 cr. Undergraduate/Graduate.
Topics and critical issues centering on science and technology within the field of contemporary art. Student research and written/oral reports required.
Prerequisites: jr st, & admis to IAT prog or to Visual Art prog; or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
Food & Beverage Studies (FOODBEV)

FOODBEV 101 Introduction to Food Studies
3 cr. Undergraduate.
Ways in which food affects health; health 'crazes;' systems of food distribution and economics; ethical and environmental issues; food as a symbol for social distinction.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 102 Taste: The Culture and Science of Fermentation
3 cr. Undergraduate.
Fermentation as a cultural and scientific phenomenon; anthropological, historical, biological, chemical, and cultural aspects of fermentation process; roles of fermented foods and beverages in society.
Prerequisites: none.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 199 Independent Study
1-3 cr. Undergraduate.
Independent study under supervision of faculty or academic staff member. For further information, consult prog coordinator.
Prerequisites: 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 289 Internship in Food Studies, Lower Division
1-3 cr. Undergraduate.
Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising instr.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 297 Study Abroad:
1-6 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/ chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
FOODBEV 489 Internship in Food Studies, Upper Division
1-3 cr. Undergraduate.
Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising instr.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 497 Study Abroad:
1-6 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FOODBEV 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced-level independent study work under the supervision of a faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 3 cr max.
Last Taught: Fall 2018, Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

Foreign Languages and Literature (FLL)

FLL 101 How to Learn a Language
1 cr. Undergraduate.
This course provides language students with learning tools that are helpful for articulatory phonetics, morphology, grammatical inflections, word derivations, and explanations of unfamiliar grammatical constructions.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 102 Uncommonly Taught Language: Intensive First Semester:
5-7 cr. Undergraduate.
Intensive training in an uncommonly taught language, for students with no previous knowledge of the language.
Prerequisites: none.
Course Rules: May be retaken w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 103 First Semester of an Uncommonly-Taught Language:
1-4 cr. Undergraduate.
Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number.
Prerequisites: none.
Course Rules: For students with no previous knowledge of the language. May be retaken w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 104 Second Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 103(Linguis 131)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 105 Intensive Elementary Language I:
4 cr. Undergraduate.
Methodical study of the elements of a designated language; phonology, morphology, syntax, vocabulary. First five-week module in semester-long intensive program.
Prerequisites: conc reg FLL 216.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 106 Intensive Elementary Language II:
4 cr. Undergraduate.
Continuation of FLL 105. A five-week intensive course offered as the second of three modules in a semester-long intensive program.
Prerequisites: FLL 105(C) or equiv; conc reg in FLL 216.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 109 First-Semester Lao Literacy
3 cr. Undergraduate.
Introduction to literacy skills in Lao. Intended for speakers of Lao.
Prerequisites: none.
Last Taught: Fall 2005, Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 110 Second-Semester Lao Literacy
3 cr. Undergraduate.
Continuation of FLL 109 (Linguis 163). Prerequisites: FLL 109 (Linguis 163)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 192 First Year Seminar:
3 cr. Undergraduate.
Specific topics announced in the Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
FLL 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 202 Uncommonly Taught Language: Intensive Second Semester:
5-7 cr. Undergraduate.
Continuation of FLL/Linguis 102(Linguis 133).
Prerequisites: FLL/Linguis 102(Linguis 133)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 203 Third Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number.
Prerequisites: FLL/Linguis 104(Linguis 132)(P) in the same language.
Course Rules: May be retaken w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 204 Fourth Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 203(Linguis 231)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 205 Intensive Intermediate Language I:
3 cr. Undergraduate.
Completion of methodical study of elements of the designated language; emphasis on intensive review of/practice with vocabulary, morphology, syntax. Third five-week module in semester-long intensive program.
Prerequisites: FLL 106(C) or equiv; conc reg in FLL 216.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 216 Survey of Civilization:
3 cr. Undergraduate.
Survey of the civilization of the designated language from geographical, historical, and cultural perspectives; emphasis on reading in the language simple and intermediate texts that illustrate aspects of the civilization.
Prerequisites: conc reg in FLL 105, 106, & 205.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 240 Vampires: From Slavic Village to Hollywood
3 cr. Undergraduate.
Historical survey of western vampire lore from discovery in eastern Europe in the 1700's through British literary vampire literature to Hollywood Dracula films.
Prerequisites: none.
Course Rules: Not open to students who have taken FLL 192, Vampires topic.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created especially for offering in a specified enrollment period. Requires only dept and Assoc Dean approval. In exceptional circumstances can be offered in one add'l semester.
Prerequisites: none, except as required for specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 303 Fifth Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 204(Linguis 232)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 304 Sixth Semester of an Uncommonly Taught Language:
3 cr. Undergraduate.
Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 303(Linguis 331)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 304 & Linguis 304 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

FLL 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced-level independent work under the supervision of a Foreign Languages and Literature faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
French (FRENCH)

FRENCH 103 First-Semester French
4 cr. Undergraduate.
For students who have not studied French previously. Oral practice, grammar, and reading. Language laboratory required.
Prerequisites: none.
Course Rules: Counts as repeat of French 113. Open only to students with 2 yrs HS French or less or score of 1 on the French placement exam.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 104 Second-Semester French
4 cr. Undergraduate.
Continuation of French 103. Further drill in the language laboratory.
Prerequisites: grade of C or better in French 103(P) or level 2 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of French 114.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 110 French for Travelers
1-2 cr. Undergraduate.
Basic conversational French for travelers. For students with no knowledge of French as well as for those with a basic foundation in the language. Useful vocabulary and cultural information.
Prerequisites: none.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 113 Intensive French I
4 cr. Undergraduate.
Compressed introductory course focused on speaking, oral comprehension, and reading. For students with some knowledge of French or another foreign language.
Prerequisites: none.
Course Rules: Counts as a repeat of French 103.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 114 Intensive French II
4 cr. Undergraduate.
Continuation of French 113. Prepares students for placement into French 203.
Prerequisites: French 103(P), 113(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Course Rules: Counts as a repeat of French 104.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 145 Views of France:
3 cr. Undergraduate.
In-depth study of selected aspects of French civilization as reflected in literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 190 Elementary French Electives
3-12 cr. Undergraduate.
Awarded by the program director for language work at the introductory (first-year) level completed in Paris.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2018, Fall 2017, Fall 2009, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Summer 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 199 Independent Study
1-4 cr. Undergraduate.
For further information consult department chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 203 Third-Semester French
3 cr. Undergraduate.
Review and further study of language and culture with emphasis on the development of reading skills.
Prerequisites: grade of C or better in French 104(P) or 114(P) or level 3 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 204 Fourth-Semester French
3 cr. Undergraduate.
Prerequisites: grade of C or better in French 203(P) or level 4 score on French placement exam or cons instr; French 213(R). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
FRENCH 205 Reading for Research
3 cr. Undergraduate.
Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student’s field of specialization.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 210 French Immersion: Intermediate
1-2 cr. Undergraduate.
Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers, simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.
Prerequisites: French 203(P) or cons instr.
Course Rules: May be retaken to 4 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 277 French Discussion Section:
1-2 cr. Undergraduate.
Discussion in French, designed to broaden perspectives, improve language skills.
Prerequisites: French 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 289 Internship in French
1-6 cr. Undergraduate.
Application of basic principles of French in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: French 103(P) or 113(P); 2.25 gpa; cons instr.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 290 Intermediate French Electives:
3-12 cr. Undergraduate.
Awarded by the program director for language work on the intermediate level completed at Paris.
Prerequisites: acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: Students initially enroll in French 595. May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 303 Conversation and Composition: Intermediate Level
3 cr. Undergraduate.
Development of ability to understand, read, speak and write French, with emphasis on everyday language and culture.
Prerequisites: grade C or better in French 204(P) or level 5 score on French placement exam or cons instr; may be taken conc w/French 204 w/grade B or better in French 203(P). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 310 Contemporary French Usage
1-2 cr. Undergraduate.
Review of French grammar, practice in conversation and composition with emphasis on current practice. Reading materials will stress contemporary French life and politics.
Prerequisites: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 311 French for International Business/Professional Communication: Oral Emphasis
3 cr. Undergraduate.
Introduction to business language and practices in French-speaking countries. Commercial vocabulary, oral and written communication skills, use of French internet resources.
Prerequisites: French 303(215)(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
FRENCH 324 Contemporary French Language and Culture
3 cr. Undergraduate.
Introduction to contemporary French culture through the use of authentic materials (video, oral interviews, literary and journalistic writing).
Prerequisites: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 325 Intensive Grammar and Usage
3 cr. Undergraduate.
Grammatical structures; levels of styles; written accuracy and proficiency.
Prerequisites: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 332 Reading French Texts
3 cr. Undergraduate.
Rules and concepts involved in reading and understanding poetry and prose. Practice in developing skills by literary analysis.
Prerequisites: French 303(P) or cons instr; French 324(R) & 325(R).
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 349 Studies in French Culture:
2-4 cr. Undergraduate.
A specific aspect of French culture combining class lectures and on-site visits.
Prerequisites: French 303(215)(P) or cons instr; acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May not enroll conc in French 449. May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 357 Literature of the French-Speaking World in Translation:
3 cr. Undergraduate.
Topic/genre in selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.).
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2013, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 383 Honors Seminar:
3 cr. Undergraduate.
Reading and discussion of selected works.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 392 Phonetics
3 cr. Undergraduate.
Theory of French sounds; phonetic transcription; practice in pronunciation in class and in language laboratory.
Prerequisites: French 303(215)(P) or cons instr.
Course Rules: Required of teaching majors & minors.
Last Taught: Fall 2019, Spring 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 395 Reading French for Proficiency
3 cr. Undergraduate.
Development of reading proficiency in French by focusing on vocabulary acquisition, recognition of cognates, and analysis of complex sentences in short literary and journalistic texts.
Prerequisites: French 324(327)(P), 325(P), or 332(322)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 401 French for Reading Knowledge
3 cr. Undergraduate.
For students with little or no previous knowledge of French; especially useful to graduate students fulfilling a language requirement.
Prerequisites: jr st.
Course Rules: Does not count toward the French major or minor.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 410 French Immersion: Advanced
1-2 cr. Undergraduate/Graduate.
Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.
Prerequisites: French 324(327)(P) & 325(P), or cons instr.
Course Rules: May be retaken to 4 cr max.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
FRENCH 410G French Immersion: Advanced
1-2 cr. Undergraduate/Graduate.
Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.
Prerequisites: French 324(327)(P) & 325(P), or cons instr.
Course Rules: May be retaken to 4 cr max.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 415 Introduction to Translation: French to English
3 cr. Undergraduate.
Introduction to basic skills necessary to professional translation. Translation of texts from French into English. Summarizing texts. Sight translation.
Prerequisites: jr st; grade of B or better in French 325(P); French 324(327) (P) or 332(322)(P).
Last Taught: Fall 2010, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 426 Growing Up French
3 cr. Undergraduate/Graduate.
French civilization from the point of view of the French child, with emphasis on materials familiar to French children and adolescents.
Prerequisites: jr st; two French courses numbered 320 or above or cons instr.
General Education Requirements: HU
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 426G Growing Up French
3 cr. Undergraduate/Graduate.
French civilization from the point of view of the French child, with emphasis on materials familiar to French children and adolescents.
Prerequisites: jr st; two French courses numbered 320 or above or cons instr.
General Education Requirements: HU
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 427 Advanced Written Expression
3 cr. Undergraduate/Graduate.
Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression.
Prerequisites: jr st & French 324(327)(P) & 325(P), or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 427G Advanced Written Expression
3 cr. Undergraduate/Graduate.
Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression.
Prerequisites: jr st & French 324(327)(P) & 325(P), or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 428 Castles, Cathedrals, and Common People: The Foundations of French Culture
3 cr. Undergraduate/Graduate.
Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance.
Prerequisites: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 428G Castles, Cathedrals, and Common People: The Foundations of French Culture
3 cr. Undergraduate/Graduate.
Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance.
Prerequisites: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 429 Royalty, Reason, and Revolution: The Golden Age of French Culture
3 cr. Undergraduate/Graduate.
Major aspects of French society and its cultural expressions from the Renaissance through the Revolution.
Prerequisites: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 429G Royalty, Reason, and Revolution: The Golden Age of French Culture
3 cr. Undergraduate/Graduate.
Major aspects of French society and its cultural expressions from the Renaissance through the Revolution.
Prerequisites: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 430 Reaction and Innovation: French Culture of the 19th and 20th Centuries
3 cr. Undergraduate/Graduate.
Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance.
Prerequisites: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 430G Reaction and Innovation: French Culture of the 19th and 20th Centuries
3 cr. Undergraduate/Graduate.
Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance.
Prerequisites: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
FRENCH 431 Seminar in Literature of the Francophone World:
3 cr. Undergraduate.
Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec.
Prerequisites: jr st; French 325(P) & 332(322)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 432 Seminar in French and Francophone Cultures:
1-3 cr. Undergraduate.
In-depth study of selected topics in the cultures of France or French-speaking countries.
Prerequisites: French 324(327)(P) or 325(P), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2017, Fall 2015, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 433 Seminar in French Literature:
3 cr. Undergraduate.
In-depth study of important works of French literature.
Prerequisites: jr st; French 325(P) & 332(322)(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 449 Studies in French Culture:
2-4 cr. Undergraduate.
French culture through readings and on-site visits. Completing this course does not preclude taking required 300-level courses for cr upon return to UWM.
Prerequisites: 300-level French course; acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May not enroll conc in French 349. May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 450 Institutions and Culture of Contemporary France
3 cr. Undergraduate/Graduate.
Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world.
Prerequisites: jr st; French 325(P); one add'l 300-level French course or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 450G Institutions and Culture of Contemporary France
3 cr. Undergraduate/Graduate.
Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world.
Prerequisites: jr st; French 325(P); one add'l 300-level French course or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 451 Cinema of the French-Speaking World:
3 cr. Undergraduate/Graduate.
Narrative techniques and thematic content of French-language cinema.
Prerequisites: jr st; two of French 324(327)(P), 325(P), 332(322)(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. First enrollment only counts toward French major.
Last Taught: Fall 2018, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 451G Cinema of the French-Speaking World:
3 cr. Undergraduate/Graduate.
Narrative techniques and thematic content of French-language cinema.
Prerequisites: jr st; two of French 324(327)(P), 325(P), 332(322)(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. First enrollment only counts toward French major.
Last Taught: Fall 2018, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 457 Topics in French and Francophone Studies in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.
Prerequisites: junior standing or consent of instructor.
Course Rules: COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 457G Topics in French and Francophone Studies in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.
Prerequisites: junior standing or consent of instructor.
Course Rules: COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 465 Introduction to Translation: English to French
3 cr. Undergraduate/Graduate.
Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.
Prerequisites: jr st; grade of B or better in French 325(P), French 427(P) or cons instr.
Course Rules: French 465 & Trnslt 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with Intro to English to French Translation topic.
Last Taught: Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/
FRENCH 465G Introduction to Translation: English to French
3 cr. Undergraduate/Graduate.
Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.
Prerequisites: jr st; grade of B or better in French 325(P); French 427(P) or cons instr.
Course Rules: French 465 & Translt 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with Intro to English to French Translation topic.
Last Taught: Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 489 Internship in French
1-6 cr. Undergraduate.
Application of advanced principles of French in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; a 300-level or above course in French; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Summer 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 510 Seminar on Masterpieces of Literature Written in French:
3 cr. Undergraduate/Graduate.
Representative works of a major writer or writers.
Prerequisites: jr st; French 325(P) & 332(322)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 510G Seminar on Masterpieces of Literature Written in French:
3 cr. Undergraduate/Graduate.
Representative works of a major writer or writers.
Prerequisites: jr st; French 325(P) & 332(322)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 520 Seminar in Contemporary French Literature:
3 cr. Undergraduate/Graduate.
Trends and schools in contemporary novels, theatre, and poetry.
Prerequisites: jr st; French 325(P) & 332(322)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2010, Fall 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 520G Seminar in Contemporary French Literature:
3 cr. Undergraduate/Graduate.
Trends and schools in contemporary novels, theatre, and poetry.
Prerequisites: jr st; French 325(P) & 332(322)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2010, Fall 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 592 Seminar in French Language:
3 cr. Undergraduate/Graduate.
Historic, social, geographic, phonological, and lexical evolution of French. How French fits into global and regional contexts.
Prerequisites: jr st; two of French 324(327)(P), 325(P), & 332(322)(P); French 392(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 592G Seminar in French Language:
3 cr. Undergraduate/Graduate.
Historic, social, geographic, phonological, and lexical evolution of French. How French fits into global and regional contexts.
Prerequisites: jr st; two of French 324(327)(P), 325(P), & 332(322)(P); French 392(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 595 Study Abroad in France
10-12 cr. Undergraduate.
Designed to enroll students before level, content and credits of work in France are determined. Translated into French 290, 390, or 490 upon completion of program.
Prerequisites: French 203(P); acceptance for Study Abroad Prog.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 599 Tools and Techniques of Research in French
1 cr. Undergraduate.
Library resources available for research in French language and literature, including online academic databases, the library catalogue, and reference books.
Prerequisites: jr st; conc reg in one of French 428(C), 429(C), 430(C), 431(C), 432(C), 433(C), 450(C), 510(C), or 592(C).
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
FRENCH 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a French faculty or instructional academic staff member. For further information, consult French prog coord.
Prerequisites: jr st; two 300-level French courses, 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 700 Practicum in French Language Teaching Methods
1 cr. Graduate.
Practical application within French of methods and concepts taught in MALLT(MAFLL) 700.
Prerequisites: grad st; MALLT(MAFLL) 700(C) or cons instr.
Course Rules: Retakable to 2 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 706 Introduction to Translation: French to English
3 cr. Graduate.
Introduction to basic skills necessary to professional translation. Translation of texts form French into English. Summarizing texts. Sight translation.
Prerequisites: grad st; admis to Trnsln Prog or cons instr.
Course Rules: French 706 (715) & Trnsln 706 (715) are jointly offered; they count as repeats of one another. Counts as repeat of French/Trnsln 415 (425) taken for grad cr.
Last Taught: Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 716 Seminar in Advanced Translation: French to English
3 cr. Graduate.
Translation from French into English; advanced grammar, techniques of documentation.
Prerequisites: grad st; French 415(425)(P) or cons instr.
Course Rules: French 716(515) & Trnsln 716(515) are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 731 Seminar in Literature of the Francophone World:
3 cr. Graduate.
Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 732 Topics in French and Francophone Culture:
1-3 cr. Graduate.
Advanced study of selected topics in the cultures of France or french-speaking countries.
Prerequisites: Grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. Not open for cr to students w/cr in French 432 w/same subtitle.
Last Taught: Spring 2020, Fall 2015, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 733 Seminar in French Literature:
3 cr. Graduate.
In-depth study of important works of French literature.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 797 Study Abroad:
1-6 cr. Graduate.
Designed to enroll graduate students in UWM sponsored program before course work, level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2019, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

FRENCH 799 Independent Study:
1-3 cr. Graduate.
Supervised study with a member of the graduate faculty.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

Freshwater Sciences (FRSHWTR)

FRSHWTR 190 Topics in Freshwater Sciences:
1-3 cr. Undergraduate.
Current issues in freshwater sciences for undergraduates.
Prerequisites: none, except as may be required for specific topics.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 191 Great Lakes Ecology
3 cr. Undergraduate.
A select history of Great Lakes ecosystem change.
Prerequisites: none.
Course Rules: Counts as repeat of Frshwtr 190 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 461 Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for
global sustainability.
Prerequisites: junior standing; CES 210(P) or consent of instructor.
Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered;
they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 461G Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for
global sustainability.
Prerequisites: junior standing; CES 210(P) or consent of instructor.
Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered;
they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 464 Chemical Hydrogeology
4 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how
they are modified by human activity and contamination, and attempts to
regulate them. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P).
Course Rules: FRSHWTR 464 & GEO SCI 464 are jointly-offered; they
count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 464G Chemical Hydrogeology
4 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how
they are modified by human activity and contamination, and attempts to
regulate them. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P).
Course Rules: FRSHWTR 464 & GEO SCI 464 are jointly-offered; they
count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWInterMi 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWInterMi 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 498 Undergraduate Research
1-3 cr. Undergraduate.
Undergraduate research on faculty-supervised research projects.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 502 Aquatic Ecosystem Dynamics
3 cr. Undergraduate/Graduate.
Interdisciplinary, quantitative approach to understanding large
lake dynamic processes, including geological formation, hydrology,
hydrodynamics, chemistry and the dynamics of plankton and fish
communities.
Prerequisites: jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or
Bio Sci; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 502G Aquatic Ecosystem Dynamics
3 cr. Undergraduate/Graduate.
Interdisciplinary, quantitative approach to understanding large
lake dynamic processes, including geological formation, hydrology,
hydrodynamics, chemistry and the dynamics of plankton and fish
communities.
Prerequisites: jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or
Bio Sci; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 504 Quantitative Freshwater Analysis
3 cr. Undergraduate/Graduate.
A fundamental set of tools for the quantitative analysis of environmental
data sets, with an emphasis on the calculation of reservoirs, residence
times and rates in aquatic systems.
Prerequisites: jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 504G Quantitative Freshwater Analysis
3 cr. Undergraduate/Graduate.
A fundamental set of tools for the quantitative analysis of environmental
data sets, with an emphasis on the calculation of reservoirs, residence
times and rates in aquatic systems.
Prerequisites: jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 506 Environmental Health of Freshwater Ecosystems
3 cr. Undergraduate/Graduate.
The influences of human-induced environmental change on the health of freshwater ecosystems and humans who interact with these systems.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: [Link]

FRSHWTR 506G Environmental Health of Freshwater Ecosystems
3 cr. Undergraduate/Graduate.
The influences of human-induced environmental change on the health of freshwater ecosystems and humans who interact with these systems.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: [Link]

FRSHWTR 508 Aquatic Technologies
3 cr. Undergraduate/Graduate.
Interdisciplinary perspective on the function, application and development of technologies used in the aquatic sciences.
Prerequisites: jr st.
Current Offerings: [Link]

FRSHWTR 508G Aquatic Technologies
3 cr. Undergraduate/Graduate.
Interdisciplinary perspective on the function, application and development of technologies used in the aquatic sciences.
Prerequisites: jr st.
Current Offerings: [Link]

FRSHWTR 510 Economics, Policy and Management of Water
3 cr. Undergraduate/Graduate.
The impact of economics, policy and management decisions on our freshwater resources and how science and economics affect these decisions.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: [Link]

FRSHWTR 510G Economics, Policy and Management of Water
3 cr. Undergraduate/Graduate.
The impact of economics, policy and management decisions on our freshwater resources and how science and economics affect these decisions.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: [Link]

FRSHWTR 511 Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & Frshwtr 511 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: [Link]

FRSHWTR 511G Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & Frshwtr 511 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: [Link]

FRSHWTR 512 Freshwater Sciences Practicum:
2-4 cr. Undergraduate/Graduate.
Diverse opportunities for practical, hands-on experience in the practice of freshwater science with emphasis on team work, problem solving, field work, and dissemination of results.
Prerequisites: jr st, Frshwtr 502(P) & 504(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: [Link]

FRSHWTR 512G Freshwater Sciences Practicum:
2-4 cr. Undergraduate/Graduate.
Diverse opportunities for practical, hands-on experience in the practice of freshwater science with emphasis on team work, problem solving, field work, and dissemination of results.
Prerequisites: jr st, Frshwtr 502(P) & 504(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: [Link]

FRSHWTR 513 Field Experimentation and Analysis in Freshwater Sciences
3 cr. Undergraduate/Graduate.
Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.
Prerequisites: jr st, Bio Sci 152(P); Chem 104(P); or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: [Link]

FRSHWTR 513G Field Experimentation and Analysis in Freshwater Sciences
3 cr. Undergraduate/Graduate.
Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: [Link]

FRSHWTR 514 Analytical Techniques in Freshwater Sciences
3 cr. Undergraduate/Graduate.
Modern analytical techniques and genomics principles and methods in freshwater sciences.
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.
Course Rules: Counts as repeat of Frshwtr 650 w/same topic.
Current Offerings: [Link]
FRSHWTR 514G Analytical Techniques in Freshwater Sciences
3 cr. Undergraduate/Graduate.
Modern analytical techniques and genomics principles and methods in freshwater sciences.
Prerequisites: jr st; BioSci 152(P); Chem 104(P); or grad st.
Course Rules: Counts as repeat of Frshwr 650 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 522 Biogeochemistry of Natural Organic Matter
3 cr. Undergraduate/Graduate.
Fluxes and biogeochemical cycling pathways of dissolved, colloidal and particulate organic matter across interfaces in aquatic systems.
Prerequisites: junior standing and one semester of Chemistry; or consent of instructor.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 522G Biogeochemistry of Natural Organic Matter
3 cr. Undergraduate/Graduate.
Fluxes and biogeochemical cycling pathways of dissolved, colloidal and particulate organic matter across interfaces in aquatic systems.
Prerequisites: junior standing and one semester of Chemistry; or consent of instructor.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 524 Aquatic Isotope Biogeochemistry
3 cr. Undergraduate/Graduate.
Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.
Prerequisites: jr st.
Last Taught: Spring 2020, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 524G Aquatic Isotope Biogeochemistry
3 cr. Undergraduate/Graduate.
Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.
Prerequisites: jr st.
Last Taught: Spring 2020, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 562 Principles of Aquaculture Systems
3 cr. Undergraduate/Graduate.
Physical and chemical aspects of intensive & recirculating operations of aquaculture production systems.
Prerequisites: jr st, BioSci 152 (P); Chem 104(P); Math 116(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 562G Principles of Aquaculture Systems
3 cr. Undergraduate/Graduate.
Physical and chemical aspects of intensive & recirculating operations of aquaculture production systems.
Prerequisites: jr st, BioSci 152 (P); Chem 104(P); Math 116(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 563G Finfish Aquaculture and Nutrition Principles
3 cr. Undergraduate/Graduate.
Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.
Prerequisites: jr st, BIO SCI 152(P) and CHEM 104(P).
Course Rules: BIO SCI 563/FRSHWTR 563 are jointly offered and count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 563G Finfish Aquaculture and Nutrition Principles
3 cr. Undergraduate/Graduate.
Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.
Prerequisites: jr st, BIO SCI 152(P) and CHEM 104(P).
Course Rules: BIO SCI 563/FRSHWTR 563 are jointly offered and count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 564 Water Quality in Aquaculture
3 cr. Undergraduate/Graduate.
Principles of water chemistry & microbial conversion of nutrients; microorganisms that impact fish health; for successful operation of intensive aquaculture operations.
Prerequisites: jr st, Bio Sci 152(P); Chem 104(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 564G Water Quality in Aquaculture
3 cr. Undergraduate/Graduate.
Principles of water chemistry & microbial conversion of nutrients; microorganisms that impact fish health; for successful operation of intensive aquaculture operations.
Prerequisites: jr st, Bio Sci 152(P); Chem 104(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 567 Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st, BIO SCI 152(P), CHEM 104(P).
Course Rules: Previously FRSHWTR 565. BIO SCI 567/FRSHWTR 567 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 567G Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st, BIO SCI 152(P), CHEM 104(P).
Course Rules: Previously FRSHWTR 565. BIO SCI 567/FRSHWTR 567 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 568 Brew City Aquaponics: Hemp and Herbs
3 cr. Undergraduate/Graduate.
Hands-on course on principles behind high-value aquaponics production systems, with emphasis on intensive operations for production of culinary herbs, and industrial/medical hemp.
Prerequisites: junior standing; BIO SCI 105(P) or equivalent; or graduate standing.
Course Rules: Counts as a repeat of FRSHWTR 512 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 568G Brew City Aquaponics: Hemp and Herbs
3 cr. Undergraduate/Graduate.
Hands-on course on principles behind high-value aquaponics production systems, with emphasis on intensive operations for production of culinary herbs, and industrial/medical hemp.
Prerequisites: junior standing; BIO SCI 105(P) or equivalent; or graduate standing.
Course Rules: Counts as a repeat of FRSHWTR 512 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 583 Cost-Benefit Analysis for Environmental Resource Decisions
3 cr. Undergraduate/Graduate.
Development and illustration of cost-benefit analysis concepts, principles, and techniques through applications to environmental resource decisions.
Prerequisites: junior standing.
Course Rules: Counts as repeat of FRSHWTR 650 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 583G Cost-Benefit Analysis for Environmental Resource Decisions
3 cr. Undergraduate/Graduate.
Development and illustration of cost-benefit analysis concepts, principles, and techniques through applications to environmental resource decisions.
Prerequisites: junior standing.
Course Rules: Counts as repeat of FRSHWTR 650 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 584 Aquatic Ecosystem Services Valuation
3 cr. Undergraduate/Graduate.
Economic theory and methods in valuing aquatic and related terrestrial ecosystems.
Prerequisites: jr st.
Course Rules: Counts as repeat of Frshwtr 650 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 584G Aquatic Ecosystem Services Valuation
3 cr. Undergraduate/Graduate.
Economic theory and methods in valuing aquatic and related terrestrial ecosystems.
Prerequisites: jr st.
Course Rules: Counts as repeat of Frshwtr 650 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 621 Benthic Ecology
3 cr. Undergraduate/Graduate.
Chemophysical and biological interactions in freshwater and marine systems. Emphasis on invertebrate ecology. 2 hrs lec, 4 hrs lab.
Prerequisites: sr st & cons instr; or grad st.
Course Rules: Req’d field work for which fee is assessed.
Last Taught: Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 621G Benthic Ecology
3 cr. Undergraduate/Graduate.
Chemophysical and biological interactions in freshwater and marine systems. Emphasis on invertebrate ecology. 2 hrs lec, 4 hrs lab.
Prerequisites: sr st & cons instr; or grad st.
Course Rules: Req’d field work for which fee is assessed.
Last Taught: Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 630 Leadership in Science: Tackling Wicked Problems
3 cr. Undergraduate/Graduate.
Extends learning and practice into the role and relationships with individuals and groups in the leadership process in the context of wicked problems.
Prerequisites: jr st. or higher.
Course Rules: Counts as repeat of Frshwtr 650 with similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 630G Leadership in Science: Tackling Wicked Problems
3 cr. Undergraduate/Graduate.
Extends learning and practice into the role and relationships with individuals and groups in the leadership process in the context of wicked problems.
Prerequisites: jr st. or higher.
Course Rules: Counts as repeat of Frshwtr 650 with similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 640 Sequence Analysis
3 cr. Undergraduate/Graduate.
Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.
Prerequisites: jr st; BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.
Course Rules: Counts as repeat of Frshwtr 512 with similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 640G Sequence Analysis
3 cr. Undergraduate/Graduate.
Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.
Prerequisites: jr st; BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.
Course Rules: Counts as repeat of Frshwtr 512 with similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 650 Topics in Freshwater Sciences:
1-3 cr. Undergraduate/Graduate.
Current issues in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 650G Topics in Freshwater Sciences:
1-3 cr. Undergraduate/Graduate.
Current issues in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 690 Undergraduate Seminar in Freshwater Sciences:
1-3 cr. Undergraduate.
Seminar on topics of current interest in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 695 Independent Study in Freshwater Sciences for Biological Sciences Students
1-3 cr. Undergraduate.
Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.
Prerequisites: jr st; Bio Sci 325 (P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Bio Sci 695 & Frshwr 695 are jointly offered; w/ same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 699 Independent Study for Undergraduates
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member; requires approved study proposal.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 781 Water Law for Scientists and Policy Makers
3 cr. Graduate.
The course is formatted to provide five (5) classes each on the Clean Water Act and basic common law concepts of Water Law; The Great Lakes Compact; and Wisconsin’s Groundwater Protection Act. Counts as repeat of Frsh Wtr 650 with similar topic.
Prerequisites: grad st.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 782 Water Resources Planning
3 cr. Graduate.
Emphasis on planning for water across the water cycle (surface, groundwater, wetlands, etc.), integrating non-water resources (habitat, energy, GHG emissions, etc.) in an urban context.
Prerequisites: grad st.
Course Rules: Jointly offered with & counts as repeat of UrbPlan 782.
Last Taught: Spring 2020, Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 790 Freshwater Policy and Governance
3 cr. Graduate.
The main theoretical frameworks used in public policy to study environmental problems.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 810 Professional Development for Water Leaders
3 cr. Graduate.
Exploration of skill set needed for lifelong career development: research ethics, communications, teamwork, interpersonal relationships, administration, entrepreneurship, project management, and leadership.
Prerequisites: Counts as repeat of FrshWtr 650 with similar topic. Prereq grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 822 Molecular & Cellular Basis of Environmental Disease
3 cr. Graduate.
Examines how environmental agents cause changes in gene expression, structure, and activity leading to disease; and resulting alterations in normal cellular processes and physiological consequences.
Prerequisites: grad st
Course Rules: Frshwr 822 & EOH 822 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 900 Colloquium in Freshwater Sciences
1 cr. Graduate.
Lectures by staff and visitors on research in various areas of freshwater sciences.
Prerequisites: grad st.
Course Rules: Retakable up to 2 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 901 Seminar in Freshwater Sciences: 1-3 cr. Graduate.  
Seminar on topics of current interest in freshwater sciences.  
**Prerequisites:** grad st.  
**Course Rules:** May be repeated w/ chg in topic to 9 cr max.  
**Last Taught:** Fall 2018, Spring 2018, Fall 2017, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

FRSHWTR 980 Graduate Internship 1-3 cr. Graduate.  
Students earn credits for serving in an internship that involves work related to freshwater sciences disciplines. They must prepare a report based on the internship. Retakable w/chg in topic to 6 cr max.  
**Satisfactory/Unsatisfactory only.**  
**Prerequisites:** grad st; cons instr.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

FRSHWTR 985 Master's Research and Thesis 1-6 cr. Graduate.  
Research and writing of the master's thesis under the supervision of the major professor.  
**Prerequisites:** grad st; cons instructor.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

FRSHWTR 990 Doctoral Research and Dissertation 1-9 cr. Graduate.  
Research and writing of the doctoral dissertation under the supervision of the major professor.  
**Prerequisites:** grad st; cons instructor.  
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Summer 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 105 Introduction to Human Geography 3 cr. Undergraduate.  
How humans interact with and alter the Earth through cultural, political, and economic processes; how these processes are dependent on and affect Earth's natural resources. 2 hrs lec, 1 hr dis.  
**Prerequisites:** none.  
**General Education Requirements:** SS  
**Last Taught:** Summer 2020, Spring 2020, Summer 2019, Spring 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 110 The World: Peoples and Regions 3 cr. Undergraduate.  
Introduction to regional cultural geography through a study of representative and significant areas of the earth.  
**Prerequisites:** none.  
**General Education Requirements:** SS  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 114 Geography of Race in the United States 3 cr. Undergraduate.  
Contemporary geographic issues of segregation, assimilation, belonging, and exclusion facing African-American, white, Asian, Latino, Native American and either groups in the U.S. 2 hrs lec, 1 hr dis.  
**Prerequisites:** none.  
**General Education Requirements:** CD, SS  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

Geographic perspectives on world economy: geographic organization of contemporary production and consumption around the world; historical development of capitalist economy; economic geography of globalization processes.  
**Prerequisites:** none.  
**General Education Requirements:** SS  
**Last Taught:** Fall 2019, Fall 2018, Fall 2012, Fall 2011.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 120 Our Physical Environment 3 cr. Undergraduate.  
Characteristics and significance of world land form, climate, soils, vegetation, and mineral and water resources. 2 hrs lec, 2 hrs lab/dis.  
**Prerequisites:** none.  
**Course Rules:** Not open for cr to students w/cr in Geog 121(ER), 122(ER).  
**General Education Requirements:** NS+  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 125 Introduction to Environmental Geography 3 cr. Undergraduate.  
Introduction to environmental geography and related environmental problems aimed at understanding of the earth's systems in our daily encounter with them.  
**Prerequisites:** none.  
**General Education Requirements:** NS  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 128 Introduction to Caves and Caving 3 cr. Undergraduate.  
An introduction to the science of speleology, to the underground world of caves, and to the techniques and history of caving.  
**Prerequisites:** none.  
**General Education Requirements:** NS  
**Last Taught:** Spring 2019, Fall 2018, Spring 2018, Fall 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
GEOG 140 Our Urban Environment: Introduction to Urban Geography
3 cr. Undergraduate.
Site and situation, central functions, spatial patterns of socio-economic and demographic characteristics of urban population. Spatial patterns of urban economy.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 194 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 213 Geography of Asia
3 cr. Undergraduate.
Population, resources, development, and diversity. Regions discussed are East Asia, Southeast Asia, South Asia, and Central Asia.
Prerequisites: soph st.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 216 Geography of the United States and Canada
3 cr. Undergraduate.
Physical features, resources, peoples, and utilization and economic development of the United States and Canada.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 219 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2019, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 231 Muslim Geographies: Identities and Politics
3 cr. Undergraduate.
Origin and main features of Islam and the diversity of Muslim cultures in various geographical, social, cultural, and political contexts.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2019, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 247 Quantitative Analysis in Geography
3 cr. Undergraduate.
Application of quantitative measures to geographic problems. Topics include descriptive statistics, statistical inference, and bivariate relationships. 2 hrs lec, 2 hrs lab.
Prerequisites: Math 105(P).
General Education Requirements: QLB
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 253 Austria: The Second German State
1 cr. Undergraduate.
Lands and people of Austria; climate, soils, and mineral resources; settlements and economy; the role of Austria today.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 261 Africa: Topical Analysis
3 cr. Undergraduate.
Countries south of the Sahara.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 289 Internship in Geography, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of geography in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Geog; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP, prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Last Taught: Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Fall 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 304 Human Impact on the Environment
3 cr. Undergraduate.
Geographical and temporal distribution of human effects on land and resources; historical background of human concern for deleterious effects of impacts on environments.
Prerequisites: jr st; intro course in Geog or a life sci recom.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 306 Natural Hazards
3 cr. Undergraduate.
An introduction to processes and conditions responsible for natural hazards, reasons for geographic patterns of hazards' occurrence, and modes of adjustment to natural hazards.
Prerequisites: jr st; a physical geog course recom.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 309 Nationalities and Nations of the World
3 cr. Undergraduate.
Nationalities, nations and changing borders of countries. Emigration and immigration. Cultural diffusion, languages and folk and popular culture.
Prerequisites: jr st; 100-level course in Geog or Ethn recom.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 310 General Climatology
3 cr. Undergraduate.
Global patterns of climate and the processes that shape them. Climatic elements, upper-atmospheric waves, internet data, Midwest climate, climate classification, and climate change.
Prerequisites: jr st; Geog 120(R), Atm Sci 100(R), or Atm Sci 240(R).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 325 Introduction to Data Science with R, Python, and GIS
4 cr. Undergraduate.
Basic concepts and practices in data science using R; introduction to practical skills for using Python and ArcGIS. 2.5 hrs lec, 2 hrs lab.
Prerequisites: jr st.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 330 Europe: East and West
3 cr. Undergraduate.
Europe's lands and peoples, physical and cultural diversities and similarities.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 332 China: Peoples, Regions, and Development
3 cr. Undergraduate.
Geographic examination and explanation of change in China, including population, resources, development processes, environment, diverse cities and regions, and integration into the global economy.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 340 Biogeography
3 cr. Undergraduate.
An introduction to the geography of the biosphere, the earth's surface, and the plants and animals which live there.
Prerequisites: jr st; a physical geog or a biology course recom.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 350 Conservation of Natural Resources
3 cr. Undergraduate.
Analysis of environmental ethics; the positive and negative consequences of resource development with emphasis on strategies designed to resolve environmental conflicts.
Prerequisites: jr st or a geog course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 381 Honors Seminar  
3 cr. Undergraduate.  
Selected topics in geography.  
**Prerequisites:** soph st; Honors200(P); cons Honors College dir.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**General Education Requirements:** SS  
**Last Taught:** Fall 2019, Fall 2016, Spring 2014, Spring 2012.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 400 Population, Environment, Development  
3 cr. Undergraduate/Graduate.  
Population processes and policies in different geographical contexts:  
fertility, mortality, migration, and policies affecting these; population-environment relations; interactions of population and economic development.  
**Prerequisites:** jr st & Geog 105(P), 110(P), 114(P), or 140(P).  
**Last Taught:** Spring 2014, Spring 2013.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 403 Remote Sensing: Environmental and Land Use Analysis  
4 cr. Undergraduate.  
Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab. PC/Windows familiarity recom.  
**Prerequisites:** jr st & Geog 215(P).  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 405 Cartography  
4 cr. Undergraduate.  
Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.  
**Prerequisites:** jr st & Geog 215(P).  
**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 410 Gendered Geographies  
3 cr. Undergraduate/Graduate.  
Various ways feminist geographers have analyzed gender in relation to phenomena such as the body, home, work, the nation, colonization, and globalization.  
**Prerequisites:** jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv; or grad st.  
**Last Taught:** Spring 2011, Spring 2008.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 410G Gendered Geographies  
3 cr. Undergraduate/Graduate.  
Various ways feminist geographers have analyzed gender in relation to phenomena such as the body, home, work, the nation, colonization, and globalization.  
**Prerequisites:** jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv; or grad st.  
**Last Taught:** Spring 2011, Spring 2008.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 411 Physical Climatology  
3 cr. Undergraduate/Graduate.  
Analyzing climatic processes at the microclimate scale. Budgets of radiation, energy, water, and momentum at the earth’s surface, sensible-latent heat, and soil-plant-atmosphere interactions.  
**Prerequisites:** jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.  
**Last Taught:** Fall 2006, Fall 2003.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 411G Physical Climatology  
3 cr. Undergraduate/Graduate.  
Analyzing climatic processes at the microclimate scale. Budgets of radiation, energy, water, and momentum at the earth’s surface, sensible-latent heat, and soil-plant-atmosphere interactions.  
**Prerequisites:** jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.  
**Last Taught:** Fall 2006, Fall 2003.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 415 Hydrogeography  
3 cr. Undergraduate/Graduate.  
Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling.  
**Prerequisites:** jr st, Geog 120(P) or 125(P), & Geog 215(P); or grad st.  
**Last Taught:** Fall 2018, Fall 2015.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 415G Hydrogeography  
3 cr. Undergraduate/Graduate.  
Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling.  
**Prerequisites:** jr st, Geog 120(P) or 125(P), & Geog 215(P); or grad st.  
**Last Taught:** Fall 2018, Fall 2015.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 420 Methods and Principles in Land Form Geography  
3 cr. Undergraduate/Graduate.  
Geographic qualitative and quantitative methods in land form analysis and principles of landscape evolution.  
**Prerequisites:** jr st & Geog 120(P) or 121(P) or Geo Sci 100(P).  
**Last Taught:** Spring 2019, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/  

GEOG 420G Methods and Principles in Land Form Geography  
3 cr. Undergraduate/Graduate.  
Geographic qualitative and quantitative methods in land form analysis and principles of landscape evolution.  
**Prerequisites:** jr st & Geog 120(P) or 121(P) or Geo Sci 100(P).  
**Last Taught:** Spring 2019, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
GEOG 421 Geography of Latin America
3 cr. Undergraduate/Graduate.
Topical and regional analysis of physical features, discovery and exploration, processes of settlement, evolution of the landscape, and problems of development through modern times.
Prerequisites: jr st & Geog 110(P) or 120(P) or 125(P); or grad st.
Last Taught: Spring 2015, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 424 Karst Geomorphology
3 cr. Undergraduate/Graduate.
Description and analysis of karst (limestone) processes and landforms.
Prerequisites: jr st, Geog 004(P), 120(P) or cons instr.
Last Taught: Fall 2012, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 430 Geography of Transportation
3 cr. Undergraduate.
Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns.
Prerequisites: jr st, Geog 115(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 437 Qualitative Methods in Geography
3 cr. Undergraduate.
Research design, interview, focus group, ethnography, survey, and discourse analysis; epistemological debates and the methodological and ethical issues that arise throughout the research process.
Prerequisites: jr st, Geog 105(P), 110(P), 114(P), or 140(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 441 Geography of Cities and Metropolitan Areas
3 cr. Undergraduate/Graduate.
Extent, localization, and geographic relations of land uses, facilities, and internal circulation, with particular reference to large North American cities.
Prerequisites: jr st & intro course in geog or acceptable course in an urban related field, e.g. Econ, UrbPlan, Urb Std; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 443 Cities of the World: Comparative Urban Geography
3 cr. Undergraduate/Graduate.
Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities.
Prerequisites: jr st & Geog 110(P), 115(P), or 140(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 443G Cities of the World: Comparative Urban Geography
3 cr. Undergraduate/Graduate.
Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities.
Prerequisites: jr st & Geog 110(P), 115(P), or 140(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 450G Climates of the Past and Climate Change
3 cr. Undergraduate/Graduate.
Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 450G Climates of the Past and Climate Change
3 cr. Undergraduate/Graduate.
Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 455 Applied Climatology
3 cr. Undergraduate/Graduate.
Applications of climate processes and data. Solar energy, wind energy, food production, water usage, building design, urban environments, ecological assessment, and land form development.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.
Last Taught: Fall 2012, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 455G Applied Climatology
3 cr. Undergraduate/Graduate.
Applications of climate processes and data. Solar energy, wind energy, food production, water usage, building design, urban environments, ecological assessment, and land form development.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.
Last Taught: Fall 2012, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 462 Cultural Geography of Latin America
3 cr. Undergraduate/Graduate.
Development of cultural landscapes, with emphasis on land use and environmental change resulting from European introductions; historical explanation of modern landscapes and environmental problems.
Prerequisites: jr st; one of Geog 105(P), 110(P), 421(P), 422(P), Hist 180(P), 388(P), 389(P), or 390(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 462G Cultural Geography of Latin America
3 cr. Undergraduate/Graduate.
Development of cultural landscapes, with emphasis on land use and environmental change resulting from European introductions; historical explanation of modern landscapes and environmental problems.
Prerequisites: jr st; one of Geog 105(P), 110(P), 421(P), 422(P), Hist 180(P), 388(P), 389(P), or 390(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 464 Environmental Problems
3 cr. Undergraduate/Graduate.
General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts.
Prerequisites: jr st & an intro course in a life science or environmental science.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 464G Environmental Problems
3 cr. Undergraduate/Graduate.
General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts.
Prerequisites: jr st & an intro course in a life science or environmental science.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 470 Geography of South Asia
3 cr. Undergraduate/Graduate.
Survey of the historical, cultural and economic geography of South Asia, including India and adjacent countries.
Prerequisites: jr st; intro Geog, Anthro, or Econ course.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 470G Geography of South Asia
3 cr. Undergraduate/Graduate.
Survey of the historical, cultural and economic geography of South Asia, including India and adjacent countries.
Prerequisites: jr st; intro Geog, Anthro, or Econ course.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 475 Geography of Soils
3 cr. Undergraduate/Graduate.
Systematic and regional study of soils, interrelationships of soils with the physical and cultural landscape. 2 hrs lec, 2 hrs lab.
Prerequisites: jr st; Geog 120(P), 121(P), or 125(P) or equiv.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 475G Geography of Soils
3 cr. Undergraduate/Graduate.
Systematic and regional study of soils, interrelationships of soils with the physical and cultural landscape. 2 hrs lec, 2 hrs lab.
Prerequisites: jr st; Geog 120(P), 121(P), or 125(P) or equiv.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 489 Internship in Geography, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; Geog 120(P), 121(P), or 125(P) or equiv.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 496 UROP Apprenticeship, Upper Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP.
Course Rules: May be retaken to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 499 Ad Hoc: 1-6 cr. Undergraduate. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. **Prerequisites:** jr st; add'l prereqs may be assigned to specific topic. **Course Rules:** May be retaken w/chg in topic. **Last Taught:** Fall 1999. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 515 Watershed Analysis and Modeling 3 cr. Undergraduate. Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations. **Prerequisites:** jr st; working knowledge of GIS; Geog 415(R) or Geo Sci 463(R) or 562(R). **Last Taught:** Spring 2020, Fall 2016, Spring 2014. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 520 Physical Geography of the City 3 cr. Undergraduate/Graduate. Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment. **Prerequisites:** jr st & Geog 120(P) or 125(P); or grad st. **Last Taught:** Fall 2019, Spring 2013. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 520G Physical Geography of the City 3 cr. Undergraduate/Graduate. Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment. **Prerequisites:** jr st & Geog 120(P) or 125(P); or grad st. **Last Taught:** Fall 2019, Spring 2013. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 525 Geographic Information Science 4 cr. Undergraduate. Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab. **Prerequisites:** jr st & Geog 215(P). **Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 531 Insurgent Cities - Global Geographies of Urban Social Movements 3 cr. Undergraduate. Current and past social movements, activism, resistance, and revolution and their multisclar geographies, from the urban, to the national, to the global. **Prerequisites:** jr st. **Last Taught:** Spring 2018. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 540 Globalization and the City 3 cr. Undergraduate/Graduate. Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global era urban strategies. **Prerequisites:** jr st. **Last Taught:** Fall 2019. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 540G Globalization and the City 3 cr. Undergraduate/Graduate. Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global era urban strategies. **Prerequisites:** jr st. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 547 Spatial Analysis 4 cr. Undergraduate. Advanced analysis techniques, including multivariate relationships and spatial modeling. **Prerequisites:** jr st; Geog 247(P) or dept-approved equiv. **Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 564 Urban Environmental Change and Social Justice 3 cr. Undergraduate/Graduate. Spatial aspects of contributors to urban environmental change affecting social justice. Inequitable distribution of environmental risks and benefits; challenge of developing policies. **Prerequisites:** jr st. **Last Taught:** Spring 2020. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 564G Urban Environmental Change and Social Justice 3 cr. Undergraduate/Graduate. Spatial aspects of contributors to urban environmental change affecting social justice. Inequitable distribution of environmental risks and benefits; challenge of developing policies. **Prerequisites:** jr st. **Last Taught:** Spring 2020. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 600 Perspectives on Geography 3 cr. Undergraduate. Seminar on concepts, methods, and approaches to geographic inquiry. Discussion of professional geographic materials, bibliographic procedures and methodologies. **Prerequisites:** sr st; declared geography major; writ cons instr. **Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 625 Intermediate Geographic Information Science 4 cr. Undergraduate. Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab. **Prerequisites:** jr st; Geo 525(P) or UrbPlan 591(P) or 791(P); or cons instr. **Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

GEOG 647 ArcGIS Programming with Python 4 cr. Undergraduate. Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools. **Prerequisites:** jr st; C+ or better in Geog 525(P) or cons instr. **Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
GEOG 650 Geography Field Work
3 cr. Undergraduate/Graduate.
Geographic field techniques and field problems; classroom preparations and field projects.
Prerequisites: jr st; writ cons instr.
Course Rules: Students will pay fieldwork expenses. May be retaken w/ chg in topic to 9 cr max.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 650G Geography Field Work
3 cr. Undergraduate/Graduate.
Geographic field techniques and field problems; classroom preparations and field projects.
Prerequisites: jr st; writ cons instr.
Course Rules: Students will pay fieldwork expenses. May be retaken w/ chg in topic to 9 cr max.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 654 Tropical Field Course:
3 cr. Undergraduate/Graduate.
Study of geographic field problems and techniques in the tropics. Classroom preparations, field projects and field trip to the tropics.
Prerequisites: jr st; writ cons instr.
Course Rules: Students will pay field trip expenses. May be retaken for cr w/chg of field topic & site to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 654G Tropical Field Course:
3 cr. Undergraduate/Graduate.
Study of geographic field problems and techniques in the tropics. Classroom preparations, field projects and field trip to the tropics.
Prerequisites: jr st; writ cons instr.
Course Rules: Students will pay field trip expenses. May be retaken for cr w/chg of field topic & site to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 696 Independent Work in Physical Geography
1-3 cr. Undergraduate.
Independent reading or project on a physical geography topic under the supervision of a geography faculty member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 698 GIS/Cartography Internship
1-6 cr. Undergraduate.
Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration.
Prerequisites: jr st; Geog 215(P); writ cons instr & dept chair.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 699 Independent Work
1-3 cr. Undergraduate.
Independent reading or project. See Advanced Independent Study.
Prerequisites: jr st, 2.5 gpa, & writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 704 Remote Sensing: Environmental and Land Use Analysis
4 cr. Graduate.
Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab
Prerequisites: PC/Windows familiarity recom.
Course Rules: Counts as repeat of Geog 405. Not open for cr to students w/grad cr in Geog 405.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 705 Cartography
4 cr. Graduate.
Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.
Prerequisites: grad st.
Course Rules: Not open for cr to students w/grad cr in Geog 515.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 716 Watershed Analysis and Modeling
3 cr. Graduate.
Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations.
Prerequisites: grad st; working knowledge of GIS.
Course Rules: Not open for cr to students w/grad cr in Geog 515.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 726 Geographic Information Science
4 cr. Graduate.
Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab.
Prerequisites: grad st.
Course Rules: Not open for cr to students w/ grad cr in Geog 525.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 730 Geography of Transportation
3 cr. Graduate.
Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns.
Prerequisites: grad st.
Course Rules: Not open for cr to students w/ grad cr in Geog 430.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 731 Insurgent Cities - Theorizing geographies of social movements
3 cr. Graduate.
Investigation into how social movements use and produce various spatialities, in relation to state forms, other social movements and forces, media assemblages, the built environment
Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 742 Urban and Regional Dimensions of Globalization
3 cr. Graduate.
Geographic perspectives on urban and regional change as ‘developed’ and ‘less developed’ parts of the world become more interconnected by wider international processes of change.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 744 Cities, Regions, and Globalization
3 cr. Graduate.
Globalization process and impact on cities and regions, including emergence of global cities and regions, impact on uneven development, and global era urban strategies.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 747 Spatial Analysis
4 cr. Graduate.
Advanced analysis techniques, including multivariate relationships and spatial modeling.
Prerequisites: grad st.
Course Rules: Not open for cr to students w/grad cr in GEOG 547.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 748 ArcGIS Programming with Python
4 cr. Graduate.
Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools.
Prerequisites: grad st; Geog 726(P).
Course Rules: Not open for cr to students w/ grad cr in Geog 647.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 798 GIS/Cartography Internship
1-4 cr. Graduate.
Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern’s contract specifies duties and duration.
Prerequisites: grad st; writ cons instr & dept chair
Course Rules: May be retaken to 8 cr max.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 804 Advanced Remote Sensing
3 cr. Graduate.
Advanced techniques of image processing and analysis, including classification, georegistration, and spatial modeling.
Prerequisites: grad st; Geog 704(P)
Course Rules: Counts as a repeat of Geog 703.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 810 Introduction to Techniques of Research and Presentation
3 cr. Graduate.
Proseminar on the scholarly use of materials in all aspects of geography; training for effective presentation in both written and oral form.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2017, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 826 Intermediate Geographic Information Science
4 cr. Graduate.
Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.
Prerequisites: grad st; Geog 525(P) or Geog 726(P) or UrbPlan 591(P) or UrbPlan 791(P).
Course Rules: Counts as a repeat of Geog 625. Not open for cr to students w/ grad cr in Geog 625.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 827 Qualitative Research
3 cr. Graduate.
Qualitative research as applied in geography, including the relationship between quantitative and qualitative approaches, issues of interpretation, and ethics of field work.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 834 GIS and Society
3 cr. Graduate.
Interconnected relationship between Geographic Information Science (GIS) and society, including hidden impacts and implications of such a relationship.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 870 Contemporary Geographic Approaches:
3 cr. Graduate.
Foundations of geographic inquiry, with emphasis on the roles of sub-disciplines, and generalist/specialist approaches in the development of geographic science.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 880 Urban Sustainability
3 cr. Graduate.
Urban sustainable challenges and opportunities that impact the built environment. Includes review of traditional and innovative sustainable practices and regulations
Prerequisites: grad st.
Course Rules: Jointly-offered w/& counts as repeat of UrbPlan 880.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Summer 2015, Summer 2014, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 889 Internship in Geography
1-6 cr. Graduate.
Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting. Intern's contract specifies duties and duration.
Prerequisites: grad st; Geog 810(P); writ cons instr & dept chair.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2020, Spring 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 890 Research and Master Thesis
1-6 cr. Graduate.
Research connected with master thesis.
Prerequisites: grad st.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 904 Remote Sensing and Urban Analysis
3 cr. Graduate.
Seminar in remote sensing technologies and applications in urban analyses, including land use/land cover analysis, socio-economic information estimation, heat-island effect, sprawl monitoring, and growth modeling.
Prerequisites: grad st; Geog 403(P) or Geog 704(P); Geog 525(P) or Geog 726(P) or UrbPlan 591(P) or 791(P).
Last Taught: Spring 2020, Fall 2015, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 905 Seminar: Selected Topics in Geography
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/topic chg to 9 cr max.
Last Taught: Fall 2019, Fall 2017, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 910 Techniques of Research and Presentation
3 cr. Graduate.
Seminar on theoretical and practical aspects of geographic research, funding, presentation, and publication.
Prerequisites: grad st in Geog Ph.D. program.
Last Taught: Fall 2019, Fall 2017, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 926 Advanced Geographic Information Science: Geographic Modeling
3 cr. Graduate.
Advanced spatial modeling with both GIS and other tools of geo-computation, including examination of conceptual models aimed at an analysis of their possible implementation.
Prerequisites: grad st; Geog 826(P).
Course Rules: Counts as a repeat of Geog 725.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 932 Seminar: Economic Geography:
3 cr. Graduate.
Analysis in depth of significant topics in advanced economic geography specializations: agricultural geography, geography of manufacturing, and geography of transportation.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 934 Seminar: Urban Geography:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 940 Seminar: Physical Geography:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 941 Seminar: Climatology:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 942 Seminar: Geography of Land Form:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 945 The Internal Structure of the City
3 cr. Graduate.
The interaction of forces responsible for the evolution of the city as a spatial form and the allocation of economic and social activity within the spatial configuration.
Prerequisites: grad st.
Course Rules: Geog 946 & Urb Std 945 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 960 Seminar: Geographic Techniques:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEOG 990 Research and Doctoral Dissertation
1-12 cr. Graduate.
Research projects connected with dissertation.
Prerequisites: grad st.
Course Rules: Retakable to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
GEOG 999 Independent Work
1-6 cr. Graduate.
Independent reading or project.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 12 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Geosciences (GEO SCI)

GEO SCI 100 Introduction to the Earth
3 cr. Undergraduate.
Study of earth processes and materials as they relate to man and the environment. Lec, lab.
Prerequisites: none.
Course Rules: Field trip for which fee is assessed. No cr for students w/cr in Geo Sci 185.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 102 Principles of Historical Geology
3 cr. Undergraduate.
Principles for interpreting the physical and paleontological history of the earth using case studies from the rock record. 2 hrs lec, 3 hrs lab.
Prerequisites: none.
Course Rules: Field trip for which fee is assessed.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 105 Earth, Air, Fire and Water
3 cr. Undergraduate.
A study of planet Earth from formation through history to modern-day oceans, atmosphere, continents, and interior; how all interact to form the human environment.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 106 The Earth Environment
3 cr. Undergraduate.
The Earth and its environment; emphasis on the interrelationships of humans with the Earth’s processes and responses. Lec.
Prerequisites: none.
Course Rules: Voluntary field trip for which fee is assessed.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 108 A History of Life
3 cr. Undergraduate.
Major features of the history of life; how paleontologists reconstruct this history. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 109 Dinosaurs
3 cr. Undergraduate.
The natural history of dinosaurs and how geologists and paleontologists reconstruct that history.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 120 Geology of the Planets
3 cr. Undergraduate.
Geological features of the planets, similarities and differences in materials and processes, significance of space exploration to geology. Lec/Lab.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 150 Introduction to Ocean Sciences
3 cr. Undergraduate.
Survey of the interdisciplinary sciences supporting oceanography. Designed for students who do not plan to major in geological sciences but are interested in the recent advances of marine sciences. Lec, voluntary dis.
Prerequisites: none.
Course Rules: Not open for cr to students who have had Geo Sci 460.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 151 Ocean Sciences Laboratory
1 cr. Undergraduate.
Laboratory exercises and demonstrations of the physical, chemical and biological processes operating in the oceans and how scientists study these processes. 2 hrs lab.
Prerequisites: Geo Sci 150(C).
Course Rules: Not open for cr to students who have had Geo Sci 460 or 461.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 185 Introductory Earth Science for Teachers
3 cr. Undergraduate.
A study of the rock cycle, water cycle and atmosphere of the earth and the essential processes that affect them. 2 hrs lec; 2 hrs lab/dis.
Prerequisites: regis in elem, early childhood, or exc educ curric, EDBA classif, or cons instr.
Course Rules: Not open for cr to students w/cr in Geo Sci 100, 105, or Atm Sci 105. Required field trips for which fees are assessed.
General Education Requirements: NS+
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 194 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2013, Fall 2011, Summer 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 208 Geology of Wisconsin
1 cr. Undergraduate.
Introduction to the geologic events and processes which shaped the scenic Wisconsin landscape with emphasis on geologically significant recreational areas accessible to the public.
Prerequisites: college course in physical geology or physical geography.
Course Rules: Not open for cr to students with Geo Sci 011.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 250 Marine Science at Sea: A Hands-On Laboratory
3 cr. Undergraduate.
Marine field work at sea from an oceanographic vessel.
Prerequisites: Geo Sci 150(P) or cons instr.
Course Rules: Not open for cr to students who completed Geo Sci 150 at sea in UWinteriM 2003.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 301 Principles of Mineralogy
4 cr. Undergraduate.
Major rock-forming minerals, their associations, geologic occurrence, and importance with an emphasis on identification using physical properties and other techniques. 3 hrs lec, 3 hrs lab.
Prerequisites: GEO SCI 100(P); course in college chem.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 302 Elementary Petrology
4 cr. Undergraduate.
Continuation of GEO SCI 301. Igneous and metamorphic rocks, including classification, genesis, field identification, and petrographic microscope study. 3 hrs lec, 3 hrs lab.
Prerequisites: GEO SCI 301(P).
Course Rules: Required field trip for which fee is assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 316 Introduction to Geophysics
4 cr. Undergraduate.
Geophysical methods and their applications to the understanding of the interior of the Earth and global tectonics. 3 hrs lec, 3 hrs lab.
Prerequisites: GEO SCI 100(P) or GEO SCI 101(P); and PHYSICS 120(P) or PHYSICS 209(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 317 Stable Isotope Geochemistry
3 cr. Undergraduate/Graduate.
To understand the fractionation and mass balance of stable isotope systems in nature and their application to geologic problems.
Prerequisites: jr st or consent of instructor; GEO SCI 100(P) or GEO SCI 101(P); and CHEM 100 (C) and GEO SCI 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 317G Stable Isotope Geochemistry
3 cr. Undergraduate/Graduate.
To understand the fractionation and mass balance of stable isotope systems in nature and their application to geologic problems.
Prerequisites: jr st or consent of instructor; GEO SCI 100(P) or GEO SCI 101(P); and CHEM 100 (C) and GEO SCI 301(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. Field trips may be required.
General Education Requirements: NS
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 400 Water Quality
4 cr. Undergraduate/Graduate.
Water availability and water quality in surface and subsurface water bodies; management of water as a resource. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P); MATH 232(P); or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 400G Water Quality
4 cr. Undergraduate/Graduate.
Water availability and water quality in surface and subsurface water bodies; management of water as a resource. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 104(P) or equiv or cons instr.
Course Rules: Required field trips for which fees are assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 401G General Soil Science
3 cr. Undergraduate/Graduate.
Soil profile development, weathering, soil mineralogy, water and nutrient relationships, classification of soil. 2 hrs lec, 3 hr lab.
Prerequisites: jr st; CHEM 104(P) or equiv or cons instr.
Course Rules: Required field trips for which fees are assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 402G General Soil Science
3 cr. Undergraduate/Graduate.
Soil profile development, weathering, soil mineralogy, water and nutrient relationships, classification of soil. 2 hrs lec, 3 hr lab.
Prerequisites: jr st; CHEM 104(P) or equiv or cons instr.
Course Rules: Required field trips for which fees are assessed.
Last Taught: Summer 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 405G Geology for In-Service Teachers:
1-3 cr. Undergraduate/Graduate.
Basic, advanced or new topics in geology for in-service teachers.
Prerequisites: in-service teacher, additional prereqs depending on topic.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Summer 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 405G Geology for In-Service Teachers:
1-3 cr. Undergraduate/Graduate.
Basic, advanced or new topics in geology for in-service teachers.
Prerequisites: in-service teacher, additional prereqs depending on topic.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Summer 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 409 Process Geomorphology
4 cr. Undergraduate/Graduate.
Study of geological processes and their effect on the formation and evolution of land forms. 3 hrs lec, 3 hrs lab, field trips for which fee is assessed.
Prerequisites: jr st; GEO SCI 100(P), GEOG 120(P), or GEOG 121(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 409G Process Geomorphology
4 cr. Undergraduate/Graduate.
Study of geological processes and their effect on the formation and evolution of land forms. 3 hrs lec, 3 hrs lab, field trips for which fee is assessed.
Prerequisites: jr st; GEO SCI 100(P), GEOG 120(P), or GEOG 121(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 410 Process Geomorphology
3 cr. Undergraduate/Graduate.
Study of geological processes and their effect on the formation and evolution of land forms. 3 hrs lec, 3 hr lab.
Prerequisites: jr st; CHEM 104(P) or equiv or cons instr.
Course Rules: Required field trips for which fees are assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 411G General Soil Science
3 cr. Undergraduate/Graduate.
Soil profile development, weathering, soil mineralogy, water and nutrient relationships, classification of soil. 2 hrs lec, 3 hr lab.
Prerequisites: jr st; CHEM 104(P) or equiv or cons instr.
Course Rules: Required field trips for which fees are assessed.
Last Taught: Summer 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 414 Structural Geology
4 cr. Undergraduate/Graduate.
Description and analysis of primary and secondary geological structures; regional and global frameworks of geological structures. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; Math Placement Level 40; GEO SCI 302(C).
Course Rules: Field trip for which fee is assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 414G Structural Geology
4 cr. Undergraduate/Graduate.
Description and analysis of primary and secondary geological structures; regional and global frameworks of geological structures. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; Math Placement Level 40; GEO SCI 302(C).
Course Rules: Field trip for which fee is assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 420 Methods in Paleomagnetism and Environmental Magnetism
3 cr. Undergraduate.
Theoretical and practical foundation in paleomagnetism and environmental magnetism, including hands-on work with samples and real data.
Prerequisites: jr st; MATH 231(R); PHYSICS 210(R) or PHYSICS 122(R).
Course Rules: Counts as a repeat of GEO SCI 696 with the same topic. Not open to students w/ credit in GEO SCI 720.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 435 History of Geologic Thought
3 cr. Undergraduate/Graduate.
History of development of the major concepts in geology.
Prerequisites: jr st; Geo Sci 102(P) or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 435G History of Geologic Thought
3 cr. Undergraduate/Graduate.
History of development of the major concepts in geology.
Prerequisites: jr st; Geo Sci 102(P) or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 440 Geochemical Thermodynamics
3 cr. Undergraduate/Graduate.
Basic equilibrium thermo-dynamics applied to low-temperature and high-temperature geochemical problems.
Prerequisites: jr st, Chem 104(P), Geo Sci 301(P), & Math 231(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 440G Geochemical Thermodynamics
3 cr. Undergraduate/Graduate.
Basic equilibrium thermo-dynamics applied to low-temperature and high-temperature geochemical problems.
Prerequisites: jr st, Chem 104(P), Geo Sci 301(P), & Math 231(P).
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 443 Glacial and Pleistocene Geology
4 cr. Undergraduate/Graduate.
Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; GEO SCI 100(P), GEO SCI 101(P), GEOG 120(P), or GEOG 121(P). GEO SCI 102(R) or GEO SCI 108(R).
Course Rules: Field trips for which fees are assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 443G Glacial and Pleistocene Geology
4 cr. Undergraduate/Graduate.
Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; GEO SCI 100(P), GEO SCI 101(P), GEOG 120(P), or GEOG 121(P). GEO SCI 102(R) or GEO SCI 108(R).
Course Rules: Field trips for which fees are assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 455 Field Geology
3-8 cr. Undergraduate.
Geologic field work and mapping. Taken off-campus, usually during the summer.
Prerequisites: sr st; GEO SCI 302(P) & 414(P).
Course Rules: May be retaken to 8 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 461 Physical Oceanography
3 cr. Undergraduate/Graduate.
Overview of physical oceanography, conservation of mass, salinity and momentum, thermodynamics, equations of motion. Waves, currents and circulation.
Prerequisites: jr st; Math 232(P); & Physics 123(P) or 210(P).
Last Taught: Fall 2012, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 461G Physical Oceanography
3 cr. Undergraduate/Graduate.
Overview of physical oceanography, conservation of mass, salinity and momentum, thermodynamics, equations of motion. Waves, currents and circulation.
Prerequisites: jr st; Math 232(P); & Physics 123(P) or 210(P).
Last Taught: Fall 2012, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 463 Physical Hydrogeology
4 cr. Undergraduate/Graduate.
Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. 3 hrs lec, 3 hrs lab, & field trip.
Prerequisites: jr st; GEO SCI 100(P) or GEO SCI 101(P); MATH 232(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 463G Physical Hydrogeology
4 cr. Undergraduate/Graduate.
Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. 3 hrs lec, 3 hrs lab, & field trip.
Prerequisites: jr st; GEO SCI 100(P) or GEO SCI 101(P); MATH 232(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 464 Chemical Hydrogeology
4 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P).
Course Rules: FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 464G Chemical Hydrogeology
4 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P).
Course Rules: FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 497 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 501 Phanerozoic Evolutionary Trends  
3 cr. Undergraduate/Graduate.  
Examination of Earth’s paleoecological patterns and their driving mechanisms. Counts as repeat of Geo Sci 696 or 697 w/same topic.  
Prerequisites: jr st; GEO SCI 102 102(P).  
Last Taught: Spring 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 501G Phanerozoic Evolutionary Trends  
3 cr. Undergraduate/Graduate.  
Examination of Earth’s paleoecological patterns and their driving mechanisms. Counts as repeat of Geo Sci 696 or 697 w/same topic.  
Prerequisites: jr st; GEO SCI 102 102(P).  
Last Taught: Spring 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 511 Stratigraphy and Sedimentation  
4 cr. Undergraduate/Graduate.  
Techniques and principles of sedimentology and stratigraphy, including methods of correlation, analysis of facies, stratigraphic mapping, and tectonic controls of sedimentation. 3 hrs lec, 3 hrs lab, and field trips.  
Prerequisites: jr st; GEO SCI 102(P) or equiv.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 511G Stratigraphy and Sedimentation  
4 cr. Undergraduate/Graduate.  
Techniques and principles of sedimentology and stratigraphy, including methods of correlation, analysis of facies, stratigraphic mapping, and tectonic controls of sedimentation. 3 hrs lec, 3 hrs lab, and field trips.  
Prerequisites: jr st; GEO SCI 102(P) or equiv.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 515 Physical Sedimentology  
4 cr. Undergraduate/Graduate.  
Physical properties, processes, and environments of clastic sediments. 3 hrs lec, 3 hrs lab, field trip for which fee is assessed.  
Prerequisites: jr st; GEO SCI 511(P).  
Last Taught: Fall 2018, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 515G Physical Sedimentology  
4 cr. Undergraduate/Graduate.  
Physical properties, processes, and environments of clastic sediments. 3 hrs lec, 3 hrs lab, field trip for which fee is assessed.  
Prerequisites: jr st; GEO SCI 511(P).  
Last Taught: Fall 2018, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 520 Introduction to Paleontology  
4 cr. Undergraduate/Graduate.  
General study of fossils and theoretical principles used in the study of paleontology. 3 hrs lec, 3 hrs lab, and field trips.  
Prerequisites: jr st; GEO SCI 102 or GEO SCI 108.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 520G Introduction to Paleontology  
4 cr. Undergraduate/Graduate.  
General study of fossils and theoretical principles used in the study of paleontology. 3 hrs lec, 3 hrs lab, and field trips.  
Prerequisites: jr st; GEO SCI 102 or GEO SCI 108.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 525 Terroir: Geology in a Glass  
3 cr. Undergraduate/Graduate.  
The geology, soil types, and climate of famous wine regions; factors that influence the production of fine wine.  
Prerequisites: jr st; Geo Sci 100(P).  
Course Rules: No cr for students w/cr in Geo Sci 696 w/same topic.  
Last Taught: Fall 2018, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 525G Terroir: Geology in a Glass  
3 cr. Undergraduate/Graduate.  
The geology, soil types, and climate of famous wine regions; factors that influence the production of fine wine.  
Prerequisites: jr st; Geo Sci 100(P).  
Course Rules: No cr for students w/cr in Geo Sci 696 w/same topic.  
Last Taught: Fall 2018, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 528 Biogeochemistry and the Fossil Record  
3 cr. Undergraduate/Graduate.  
Fermentation as a metabolic process; the organic geochemistry of fermentation; and procedures and protocols for fermentation experiments.  
Prerequisites: jr st.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 528G Biogeochemistry and the Fossil Record  
3 cr. Undergraduate/Graduate.  
Fermentation as a metabolic process; the organic geochemistry of fermentation; and procedures and protocols for fermentation experiments.  
Prerequisites: jr st.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 545 X-Ray Analytical Methods  
3 cr. Undergraduate/Graduate.  
Prerequisites: jr st; Geo Sci 301(P); satisfaction of OWC-A req; Chem 102(C).  
General Education Requirements: OWCB  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GEO SCI 545G X-Ray Analytical Methods  
3 cr. Undergraduate/Graduate.  
Prerequisites: jr st; Geo Sci 301(P); satisfaction of OWC-A req; Chem 102(C).  
General Education Requirements: OWCB  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 558 Conducted Field Trip:
1-3 cr. Undergraduate/Graduate.
Field trip to a classical geologic area. Preceded by a seminar.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max, only 3 cr of which may be applied toward geo sci major.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 558G Conducted Field Trip:
1-3 cr. Undergraduate/Graduate.
Field trip to a classical geologic area. Preceded by a seminar.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max, only 3 cr of which may be applied toward geo sci major.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 562 Environmental Surface Hydrology
3 cr. Undergraduate/Graduate.
Land-atmosphere interactions, modeling of runoff generation, and water movement in the vadose zone. 3 hrs lec.
Prerequisites: jr st; Math 232(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 562G Environmental Surface Hydrology
3 cr. Undergraduate/Graduate.
Land-atmosphere interactions, modeling of runoff generation, and water movement in the vadose zone. 3 hrs lec.
Prerequisites: jr st; Math 232(P); or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 563 Field Methods in Hydrogeology
4 cr. Undergraduate/Graduate.
Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.
Prerequisites: jr st; GEO SCI 463(P).
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 563G Field Methods in Hydrogeology
4 cr. Undergraduate/Graduate.
Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.
Prerequisites: jr st; GEO SCI 463(P).
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 564 Field Methods in Hydrogeology
4 cr. Undergraduate/Graduate.
Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.
Prerequisites: jr st; GEO SCI 463(P).
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 564G Field Methods in Hydrogeology
4 cr. Undergraduate/Graduate.
Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.
Prerequisites: jr st; GEO SCI 463(P).
Last Taught: Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 599 Geology of Wisconsin--Field Course
3 cr. Undergraduate/Graduate.
Multi-institutional team-taught, conducted field course throughout Wisconsin; instruction in the field, using exposures on which Wisconsin's geological history has been interpreted.
Prerequisites: jr st; Geo Sci 302(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 599G Geology of Wisconsin--Field Course
3 cr. Undergraduate/Graduate.
Multi-institutional team-taught, conducted field course throughout Wisconsin; instruction in the field, using exposures on which Wisconsin's geological history has been interpreted.
Prerequisites: jr st; Geo Sci 302(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 614 Advanced Structural Geology
3 cr. Undergraduate/Graduate.
Advanced analysis of deformation as applied to geological structures from microscopic through regional scales. Lec, field trip for which fee is assessed.
Prerequisites: jr st; Geo Sci 414(P); Math 231(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 614G Advanced Structural Geology
3 cr. Undergraduate/Graduate.
Advanced analysis of deformation as applied to geological structures from microscopic through regional scales. Lec, field trip for which fee is assessed.
Prerequisites: jr st; Geo Sci 414(P); Math 231(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 635 Volcanology
3 cr. Undergraduate/Graduate.
Why and when volcanoes erupt; predicting whether eruptions will be explosive or passive.
Prerequisites: jr st; Geo Sci 302(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 635G Volcanology
3 cr. Undergraduate/Graduate.
Why and when volcanoes erupt; predicting whether eruptions will be explosive or passive.
Prerequisites: jr st; Geo Sci 302(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 636 Geochronology
3 cr. Undergraduate/Graduate.
Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology.
Prerequisites: jr st, Anthro 101(P) or 103(P) or Geo Sci 150(P), & cons instr; or grad st & cons instr.
Course Rules: Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 636G Geochronology
3 cr. Undergraduate/Graduate.
Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology.
Prerequisites: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons instr; or grad st & cons instr.
Course Rules: Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 637 Planetary Geology
3 cr. Undergraduate/Graduate.
Advanced study of planetary geology, for advanced undergraduate and graduate students.
Prerequisites: jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).
Course Rules: No cr for students w/cr in Geo Sci 697 w/same topic.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 637G Planetary Geology
3 cr. Undergraduate/Graduate.
Advanced study of planetary geology, for advanced undergraduate and graduate students.
Prerequisites: jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).
Course Rules: No cr for students w/cr in Geo Sci 697 w/same topic.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 638 Advanced Igneous Petrology
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Geo Sci 302(P).
Last Taught: Fall 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 638G Advanced Igneous Petrology
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Geo Sci 302(P).
Last Taught: Fall 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 655 Topics in Structure and Tectonics:
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Geo Sci 414(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 655G Topics in Structure and Tectonics:
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Geo Sci 414(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 668G Geoelectrical Methods
3 cr. Undergraduate/Graduate.
Fundamentals of electrical resistivity surveys and electromagnetic methods, with an emphasis on surficial and environmental applications.
Prerequisites: jr st; Geo Sci 316(C), 463(C), or 661(C).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 668G Geoelectrical Methods
3 cr. Undergraduate/Graduate.
Fundamentals of electrical resistivity surveys and electromagnetic methods, with an emphasis on surficial and environmental applications.
Prerequisites: jr st; Geo Sci 316(C), 463(C), or 661(C).
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 668 Seminar in Geosciences for Teachers:
1-6 cr. Undergraduate/Graduate.
Seminar modules on various topics in geosciences offered for teachers.
Prerequisites: current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 668G Seminar in Geosciences for Teachers:
1-6 cr. Undergraduate/Graduate.
Seminar modules on various topics in geosciences offered for teachers.
Prerequisites: current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 694 Undergraduate Seminar:
1-3 cr. Undergraduate.
Intensive study of a selected topic in a seminar format.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max, of which up to 3 cr may count in major requirements.
Last Taught: Spring 2011, Fall 2010, Fall 2009, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 695 Internship in Geoscience
1-3 cr. Undergraduate/Graduate.
An internship consistent with the student's plan of study in geosciences. Requirements and evaluation determined by the department on an individual basis.
Prerequisites: jr st; cons dept.
Last Taught: Summer 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 695G Internship in Geoscience
1-3 cr. Undergraduate/Graduate.
An internship consistent with the student's plan of study in geosciences. Requirements and evaluation determined by the department on an individual basis.
Prerequisites: jr st; cons depart.
Last Taught: Summer 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 696 Research Experience for Teachers
1-6 cr. Undergraduate/Graduate.
Enrichment of students' geoscience background. Work with faculty mentor to develop an innovative teaching program for use in students' own classrooms.
Prerequisites: current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 697 Seminar in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Specific credits and add'l prerequisites announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 697G Seminar in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Specific credits and add'l prerequisites announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 698 Research Experience for Teachers
1-6 cr. Undergraduate/Graduate.
Enrichment of students' geoscience background. Work with faculty mentor to develop an innovative teaching program for use in students' own classrooms.
Prerequisites: current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 696 Topics in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Add'l prerequisites announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 697G Topics in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Add'l prerequisites announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 696G Topics in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Add'l prerequisites announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 703 Biotic Crises in Earth's History
3 cr. Graduate.
The interconnectedness among the physical, chemical, and biological processes on Earth and throughout Earth's history.
Prerequisites: grad st; Geo Sci 520(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 720 Methods in Paleomagnetism and Environmental Magnetism
3 cr. Graduate.
This course is designed to provide students with a theoretical and practical foundation in paleomagnetism and environmental magnetism, including hands-on work with samples and real data.
Prerequisites: grad st; MATH 231(R); PHYSICS 210(R) or PHYSICS 122(R)
Course Rules: Counts as a repeat of GEO SCI 696 with the same topic.
Not open to students w/ credit in GEO SCI 420.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 730 Modelling Techniques for Hydrogeology
3 cr. Graduate.
Study and application of modelling techniques in hydrogeology. Includes finite difference and finite element techniques for groundwater flow, contaminant transport, and geochemistry.
Prerequisites: grad st; Geo Sci 463; knowledge of fortran or equiv; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 740 Carbonate Sedimentology
3 cr. Graduate.
Depositional processes, environments and stratigraphic analysis of carbonate rocks. Lec, lab, field trip, for which fee is assessed.
Prerequisites: grad st; Geo Sci 511 or equiv.
Course Rules: Field trip for which fee is assessed.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
GEO SCI 749 Biogeochemistry of Soils
3 cr. Graduate.
Biogeochemical processes in soils and their impact on water quality. 3 hrs lec.
Prerequisites: grad st; Geo Sci 464(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 750 Contaminant Hydrogeology
3 cr. Graduate.
Transport and fate of contaminants in aquifers, aquitards, and unsaturated geologic materials.
Prerequisites: grad st; Geo Sci 464(C).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 790 Graduate Seminar in the Geological Sciences:
1-3 cr. Graduate.
Add'l prereqs announced in schedule of classes each time course offered.
Prerequisites: grad st.
Course Rules: Retakable to 4 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum cr load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2017, Fall 2016, Summer 2016, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 990 Master's Thesis
1-8 cr. Graduate.
Prerequisites: grad st; cons instr & completed thesis proposal.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 997 Doctoral Externship
1-12 cr. Graduate.
Prerequisites: grad st; admis to candidacy for Ph.D.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 998 Doctoral Dissertation
1-12 cr. Graduate.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

GEO SCI 999 Advanced Independent Reading
1-4 cr. Graduate.
Independent geologic study.
Prerequisites: grad st & cons instr.
Course Rules: Retakable to 4 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

German (GERMAN)

GERMAN 101 First-Semester German
4 cr. Undergraduate.
Introductory course for students who have had no previous work in German.
Prerequisites: 0-2 yrs of HS German or level 1 score on German placement test.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 102 Second-Semester German
4 cr. Undergraduate.
Continuation of German 101.
Prerequisites: grade of C or better in German 101(P) or level 2 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 111 German Life and Civilization: Part I
3 cr. Undergraduate.
The historical and cultural heritage of Germany from earliest times to 1806: major figures and developments in German art, literature, music, philosophy, and language. In English.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 112 German Life and Civilization: Part II
3 cr. Undergraduate.
The historical and cultural heritage of Germany from 1806 to the present: major figures and developments in German art, literature, music, education, and philosophy. In English.
Prerequisites: none.
Course Rules: Not retakable for credit.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 115 Seminar on Scandinavian Culture:
3 cr. Undergraduate.
In-depth study of a specific topic in Scandinavian culture, e.g., theatre, film, literature, women's issues, etc.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 145 Views of Germany:
3 cr. Undergraduate.
In-depth study of selected aspects of German civilization as reflected in literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
GERMAN 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 199 Independent Study
1-3 cr. Undergraduate.
Prerequisites: soph st; 2.0 GPA, consent of instructor, and department chair.
Course Rules: May not be retaken.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 203 Third-Semester German
3 cr. Undergraduate.
Continuation of German 102.
Prerequisites: grade of C or better in German 102(P) or level 3 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 204 German in Your Field and Beyond
3 cr. Undergraduate.
Continuation of German 203. Grammar structures; vocabulary development through reading, writing, and speaking about subjects in students’ fields of study; inter- and cross-disciplinary studies.
Prerequisites: grade of C or better in German 203(P) or level 4 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, Italian 213, Linguis 213, Polish 213, Russian 213 & Spanish 213.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 215 Reading for Research:
3 cr. Undergraduate.
Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student’s field of specialization. Designed for students preparing for reading examinations.
Prerequisites: none.
Course Rules: May be retaken once for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 289 Internship in German, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of German in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in German; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 331 German Grammar in Practice
3 cr. Undergraduate.
Review of major structures in German grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency.
Prerequisites: GERMAN 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 332 Presentation and Composition
3 cr. Undergraduate.
Practice in presentation and composition, with emphasis on issues in post-war and contemporary German culture, written accuracy, and proficiency.
Prerequisites: German 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
GERMAN 333 Texts and Contexts  
3 cr. Undergraduate.  
Reading and analysis of literary and non-literary texts in German; introduction to basic textual analysis skills.  
Prerequisites: GERMAN 331(P) or GERMAN 332(P).  
General Education Requirements: HU  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 344 Introduction to German Studies  
3 cr. Undergraduate.  
Survey of German literature and culture from 1750 to the present.  
Prerequisites: GERMAN 331(P) or GERMAN 332(P).  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 341 Undergrad Seminar in German-Amer Studies: Germans in Wisconsin & Milwaukee  
3 cr. Undergraduate.  
Student projects and presentations on the various aspects of the German heritage in Wisconsin and Milwaukee.  
Prerequisites: jr st.  
Course Rules: Required of ethnic studies majors with a German-American concentration.  
Last Taught: Fall 2016, Fall 2005.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 360 German for the Global World  
3 cr. Undergraduate.  
Vocabulary, writing, reading, and oral German skills needed for the global world.  
Prerequisites: GERMAN 332(P).  
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2012.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 371 German Phonetics  
3 cr. Undergraduate.  
Focus on English-German contrasts and pronunciation difficulties; phonetic transcription; drills in pronunciation.  
Prerequisites: junior standing or consent of instructor; GERMAN 332(P).  
Course Rules: Previously GERMAN 671.  
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 397 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enable students studying language abroad to receive course credit at appropriate level.  
Prerequisites: acceptance in Study Abroad Prog.  
Course Rules: May be retaken w/ change in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 410 German Cultural History  
3 cr. Undergraduate/Graduate.  
Major aspects of German culture from the Middle Ages to the end of the 18th century.  
Prerequisites: jr st; GERMAN 332(426)(P); GERMAN 333(R) & 334(R).  
Last Taught: Fall 1998, Fall 1995.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 410G German Cultural History  
3 cr. Undergraduate/Graduate.  
Major aspects of German culture from the Middle Ages to the end of the 18th century.  
Prerequisites: jr st; GERMAN 332(426)(P); GERMAN 333(R) & 334(R).  
Last Taught: Fall 1998, Fall 1995.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 415 Topics in German Studies:  
3 cr. Undergraduate/Graduate.  
Exploration of selected topics in German Studies. Critical analysis of a variety of texts and contexts.  
Prerequisites: GERMAN 332(P).  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 415G Topics in German Studies:  
3 cr. Undergraduate/Graduate.  
Exploration of selected topics in German Studies. Critical analysis of a variety of texts and contexts.  
Prerequisites: GERMAN 332(P).  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 425 Introduction to German Translation  
3 cr. Undergraduate.  
Introduction to skills necessary to professional translation from German to English, including text analysis, summarizing texts, and terminology research.  
Prerequisites: GERMAN 332(P).  
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 450 German Literature: Enlightenment, Storm and Stress, Classicism  
3 cr. Undergraduate.  
Major literary movements and writers in the late eighteenth century. Emphasis on Lessing, Schiller, and Goethe.  
Prerequisites: GERMAN 332(426)(P), 333(P), & 334(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 451 Introduction to German Linguistics  
3 cr. Undergraduate/Graduate.  
The nature of linguistics; aspects of phonology, morphology, syntax, semantics; discourse and text; varieties of German; acquisition of German as a foreign language.  
Prerequisites: GERMAN 332(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

GERMAN 451G Introduction to German Linguistics  
3 cr. Undergraduate/Graduate.  
The nature of linguistics; aspects of phonology, morphology, syntax, semantics; discourse and text; varieties of German; acquisition of German as a foreign language.  
Prerequisites: GERMAN 332(P).  
Current Offerings: https://catalog.uwm.edu/course-search/
GERMAN 454 German Literature: Realism, Naturalism, and the Turn of the Century
3 cr. Undergraduate.
Major literary movements, writers, and works of the second half of the nineteenth century.
Prerequisites: German 332(426)(P), 333(P), & 334(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 456 German Literature from the Turn of the Century to World War II
3 cr. Undergraduate.
Major literary movements, writers, and works of the first half of the twentieth century; expressionism, 'Neue Sachlichkeit,' and exile literature.
Prerequisites: GERMAN 333(P) or GERMAN 334(P).
Last Taught: Spring 2016, Fall 2010, Fall 2006, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 460 German Literature from 1945 to the Present
3 cr. Undergraduate/Graduate.
Literary writers and works of the German-speaking countries from 1945 to the present.
Prerequisites: GERMAN 333(P) or GERMAN 334(P).
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 460G German Literature from 1945 to the Present
3 cr. Undergraduate/Graduate.
Literary writers and works of the German-speaking countries from 1945 to the present.
Prerequisites: GERMAN 333(P) or GERMAN 334(P).
Last Taught: Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 474 German for Professional Purposes
3 cr. Undergraduate/Graduate.
Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today.
Prerequisites: jr st; GERMAN 332(P) and completion of at least 3 cr upper-division German electives.
Last Taught: Spring 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 474G German for Professional Purposes
3 cr. Undergraduate/Graduate.
Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today.
Prerequisites: jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.
Last Taught: Spring 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 475 Seminar on the History and Structure of German
3 cr. Undergraduate/Graduate.
Historical development of the German language from its beginnings to the present.
Prerequisites: jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 475G Seminar on the History and Structure of German
3 cr. Undergraduate/Graduate.
Historical development of the German language from its beginnings to the present.
Prerequisites: jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 476 Advanced German Grammar and Usage
3 cr. Undergraduate/Graduate.
Analysis and discussion of a variety of text topics and genres. Practice in speaking and writing German; attention to written accuracy and sophistication of form.
Prerequisites: jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 476G Advanced German Grammar and Usage
3 cr. Undergraduate/Graduate.
Analysis and discussion of a variety of text topics and genres. Practice in speaking and writing German; attention to written accuracy and sophistication of form.
Prerequisites: jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.
Last Taught: Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 483 Seminar on German Studies:
3 cr. Undergraduate/Graduate.
In-depth study of major themes, genres, or authors in German-language literature and culture; particular theoretical ideas and methods applied to selected texts.
Prerequisites: jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.
Course Rules: May be retaken w/ change in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 483G Seminar on German Studies:
3 cr. Undergraduate/Graduate.
In-depth study of major themes, genres, or authors in German-language literature and culture; particular theoretical ideas and methods applied to selected texts.
Prerequisites: jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.
Course Rules: May be retaken w/ change in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 484 Seminar on Themes and Motifs in German Literature:
3 cr. Undergraduate/Graduate.
Recurring themes, patterns, and figures in German-language literature.
Prerequisites: jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.
Course Rules: May be retaken w/ change in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
GERMAN 484G Seminar on Themes and Motifs in German Literature:
3 cr. Undergraduate/Graduate.
Recurring themes, patterns, and figures in German-language literature.
Prerequisites: jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.
Course Rules: May be retaken w/ change in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 488 Topics in German Philology:
3 cr. Undergraduate/Graduate.
Topics pertaining to advanced German language study or to the development of the German language in its spoken or written form.
Prerequisites: jr st; German 332(426)(P); German 333(R) & 334(R).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 488G Topics in German Philology:
3 cr. Undergraduate/Graduate.
Topics pertaining to advanced German language study or to the development of the German language in its spoken or written form.
Prerequisites: jr st; German 332(426)(P); German 333(R) & 334(R).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 489 Internship in German, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of German in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; German 332(426)(P); and completion of at least 3 cr upper-level or above.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2018, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Fall 2016, Spring 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 525 Seminar in Advanced German Translation
3 cr. Undergraduate.
Refinement of translation skills; concentration on specific types of texts.
Prerequisites: jr st; German 425(P).
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 645 Seminar on Representative German Authors:
3 cr. Undergraduate/Graduate.
Works of representative authors. Any add’l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic: undergrad, unlimited; grads, 9 cr max.
Last Taught: Spring 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 645G Seminar on Representative German Authors:
3 cr. Undergraduate/Graduate.
Works of representative authors. Any add’l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic: undergrad, unlimited; grads, 9 cr max.
Last Taught: Spring 2015, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 649 Seminar on Theoretical Approaches to German Literature:
3 cr. Undergraduate/Graduate.
Particular theoretical ideas and methods applied to selected texts; literary movements in relation to philosophy and aesthetics.
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
GERMAN 649G Seminar on Theoretical Approaches to German Literature: 3 cr. Undergraduate/Graduate. Particular theoretical ideas and methods applied to selected texts; literary movements in relation to philosophy and aesthetics. 
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above. 
Course Rules: May be retaken w/chg in topic to 9 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 697 Study Abroad: 1-12 cr. Undergraduate/Graduate. Designed to enable students studying language abroad to receive course credit at appropriate level. 
Prerequisites: jr st; acceptance in Study Abroad Prog. 
Course Rules: May be retaken w/chg in topic. 
Last Taught: Spring 2014, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 697G Study Abroad: 1-12 cr. Undergraduate/Graduate. Designed to enable students studying language abroad to receive course credit at appropriate level. 
Prerequisites: jr st; acceptance in Study Abroad Prog. 
Course Rules: May be retaken w/chg in topic. 
Last Taught: Spring 2014, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 699 Independent Reading 1-3 cr. Undergraduate. 
Advanced independent work under the supervision of a German faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult the German program coord. 
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS. 
Course Rules: May be retaken w/chg in topic. 
Current Offerings: https://catalog.uwm.edu/course-search/

GERMAN 700 Practicum in German Language Teaching Methods 1 cr. Graduate. 
Practical application within German of methods and concepts taught in MALLT(MAFLL) 700. 
Prerequisites: grad st; MALLT(MAFLL) 700(C) or cons instr. 
Course Rules: Retakable to 2 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/

Global Studies (GLOBAL) 

GLOBAL 101 Introduction to Global Studies I: People and Politics 3 cr. Undergraduate. 
Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies. 
Prerequisites: none. 
General Education Requirements: SS 
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 192 First-Year Seminar: 3 cr. Undergraduate. Specific topics announced in Schedule of Classes each time course is offered. 
Prerequisites: none. 
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). 
General Education Requirements: HU 
Last Taught: Fall 2012. 
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 193 First-Year Seminar: 3 cr. Undergraduate. Specific topics announced in Schedule of Classes each time course is offered. 
Prerequisites: none. 
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). 
General Education Requirements: SS 
Last Taught: Spring 2006. 
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 194 First-Year Seminar: 3 cr. Undergraduate. Selected topics announced in Schedule of Classes each time course is offered. 
Prerequisites: none. 
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). 
General Education Requirements: NS 
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 199 Independent Study 1-3 cr. Undergraduate. 
Independent work under supervision of faculty or academic staff member. For further information, consult the program director. 
Prerequisites: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS. 
Course Rules: Retakable to 6 cr max. 
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 201 Introduction to Global Studies II: Economics and the Environment 3 cr. Undergraduate. 
Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change. 
Prerequisites: none. 
General Education Requirements: SS 
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 202 Introduction to Global Studies III: Globalization and Technology 3 cr. Undergraduate. 
Globalization and information technology; history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions. 
Prerequisites: none. 
General Education Requirements: SS 
Current Offerings: https://catalog.uwm.edu/course-search/
GLOBAL 289 Internship in Global Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: GLOBAL 101(P); 2.25 gpa; cons supervising faculty member.
Course Rules: Min 40 hrs in internship required for 1 cr. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 311 Contexts for Global Management
3 cr. Undergraduate.
How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context.
Prerequisites: junior standing.
Last Taught: Fall 2019, Spring 2018, Spring 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 321 The Global City in History
3 cr. Undergraduate.
Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history.
Prerequisites: junior standing.
Last Taught: Fall 2011, Fall 2010, Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 351 Language, Media, and Social Practice in Global Communications
3 cr. Undergraduate.
Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices.
Prerequisites: junior standing.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 361 Environment and Sustainability
3 cr. Undergraduate/Graduate.
Different answers to 'what is sustainability?' given by ecological and social thinkers.
Prerequisites: junior standing.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 361G Environment and Sustainability
3 cr. Undergraduate/Graduate.
Different answers to 'what is sustainability?' given by ecological and social thinkers.
Prerequisites: junior standing.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 362 System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.
Course Rules: AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2014, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 362G System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.
Course Rules: AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2014, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 361G Environment and Sustainability
3 cr. Undergraduate/Graduate.
Different answers to 'what is sustainability?' given by ecological and social thinkers.
Prerequisites: junior standing.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 361 Environment and Sustainability
3 cr. Undergraduate/Graduate.
Different answers to 'what is sustainability?' given by ecological and social thinkers.
Prerequisites: junior standing.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 371 Rethinking Global Security
3 cr. Undergraduate.
Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective.
Prerequisites: junior standing.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 421 Cities in the Global Economy
3 cr. Undergraduate.
How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy.
Prerequisites: junior standing.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 439 Culture and Global Health
3 cr. Undergraduate/Graduate.
Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.
Prerequisites: junior standing.
Course Rules: ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
GLOBAL 439G Culture and Global Health
3 cr. Undergraduate/Graduate.
Contemporary global health through the lens of cultural anthropology and
related social sciences; local communities’ response to globally-directed
intervention into disease.
Prerequisites: junior standing.
Course Rules: ANTHRO 439 & GLOBAL 439 are jointly offered; they count
as repeats of one another.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 442 Humanitarianism in Global Perspective
3 cr. Undergraduate/Graduate.
Anthropological study of global humanitarianism through specific case
studies. Themes include politics of representation, intervention, war,
genocide, trauma, child soldiers, and human trafficking.
Prerequisites: junior standing; previous completion of a social science
course.
Course Rules: ANTHRO 442 & GLOBAL 442 are jointly offered; they count
as repeats of one another.
Last Taught: Spring 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 444G Intellectual Property in the Global Information Economy
3 cr. Undergraduate/Graduate.
Emerging conflicts between the intellectual property rules and new
information technologies; all aspects - copyright, patent, trademarks - in
global contexts of biotechnology, software, print, digital media, and music
industries.
Prerequisites: junior standing.
Last Taught: Fall 2013, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 446G The Re-Configuring Global Order
3 cr. Undergraduate/Graduate.
Contemporary and past global forces re-configuring our world systems
and economic and political orders.
Prerequisites: junior standing.
Last Taught: Spring 2020, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 447G The Global Politics of Human Rights
3 cr. Undergraduate/Graduate.
Historical and theoretical context of human rights discourse;
anthropology of human rights; case studies of efforts to protect human
rights in particular social settings.
Prerequisites: junior standing; ANTHRO 102(R).
Course Rules: ANTHRO 447 & GLOBAL 447 are jointly offered; they count
as repeats of one another.
Last Taught: Spring 2020, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 442G Humanitarianism in Global Perspective
3 cr. Undergraduate/Graduate.
Anthropological study of global humanitarianism through specific case
studies. Themes include politics of representation, intervention, war,
genocide, trauma, child soldiers, and human trafficking.
Prerequisites: junior standing; previous completion of a social science
course.
Course Rules: ANTHRO 442 & GLOBAL 442 are jointly offered; they count
as repeats of one another.
Last Taught: Spring 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 443G Medicine and Pharmaceuticals in the Global Age
3 cr. Undergraduate/Graduate.
The practices of medicine and the distribution of pharmaceuticals
globally.
Prerequisites: junior standing; ANTHRO 440(R).
Course Rules: ANTHRO 443 & GLOBAL 443 are jointly offered; they count
as repeats of one another.
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 444G Intellectual Property in the Global Information Economy
3 cr. Undergraduate/Graduate.
Emerging conflicts between the intellectual property rules and new
information technologies; all aspects - copyright, patent, trademarks - in
global contexts of biotechnology, software, print, digital media, and music
industries.
Prerequisites: junior standing.
Last Taught: Fall 2013, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 448G Intellectual Property in the Global Information Economy
3 cr. Undergraduate/Graduate.
Emerging conflicts between the intellectual property rules and new
information technologies; all aspects - copyright, patent, trademarks - in
global contexts of biotechnology, software, print, digital media, and music
industries.
Prerequisites: junior standing.
Last Taught: Fall 2013, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 451 Access, Security, and Intercultural Contexts in Global
Communications
3 cr. Undergraduate.
Information equity and access in a globalized context, including
issues of security, intercultural communication, and current uses of
communication technologies.
Prerequisites: junior standing.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
GLOBAL 461 The Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: junior standing; CES 210(P) or consent of instructor.
Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 461G The Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: junior standing; CES 210(P) or consent of instructor.
Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 471 Strategies for Realizing Security in Global Contexts
3 cr. Undergraduate.
Present-day strategies of those working to create or effect greater security in a global context.
Prerequisites: junior standing.
Course Rules: 6 cr Global 300-level or above; 2.5 GPA; and consent of supervising faculty member.
Last Taught: Fall 2019, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 488 Domestic Internship in Global Studies
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate work setting.
Prerequisites: junior standing; 6 cr Global 300-level or above; 2.5 GPA; and consent of supervising faculty member.
Course Rules: Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 489 International Internship in Global Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate work setting.
Prerequisites: junior standing; 6 cr Global 300-level or above; 2.5 GPA, and consent of supervising faculty member.
Course Rules: Credit granted for academic work on 40 hours in internship for each credit. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: junior standing; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2019, Summer 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: junior standing; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2008, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 541 Cross-Cultural Management
3 cr. Undergraduate.
Business cultures around the world; the impact of cultural differences in international management and negotiations.
Prerequisites: jr st; BUS ADM 330(P); admis to Bus Adm major or declared Global Studies program.
Course Rules: BUS ADM 541 & GLOBAL 541 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 550 Global Studies Integrated Capstone:
3 cr. Undergraduate/Graduate. Integration of coursework for students in the Global Communications, Health, Security, Sustainability, and Urban Development tracks.
Prerequisites: jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.
Course Rules: May be taken w/chg in topic to 6 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 550G Global Studies Integrated Capstone:
3 cr. Undergraduate/Graduate. Integration of coursework for students in the Global Communications, Health, Security, Sustainability, and Urban Development tracks.
Prerequisites: jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.
Course Rules: May be taken w/chg in topic to 6 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying or interning abroad to receive course credit at appropriate level.
Prerequisites: junior standing; Global Studies or MSP advisor approval.
Course Rules: Retakable with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying or interning abroad to receive course credit at appropriate level.
Prerequisites: junior standing; Global Studies or MSP advisor approval.
Course Rules: Retakable with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
GLOBAL 690 Global Health Governance: Key Players, Financing and Challenges
3 cr. Undergraduate/Graduate.
Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.
Prerequisites: junior standing or consent of instructor.
Course Rules: GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 690G Global Health Governance: Key Players, Financing and Challenges
3 cr. Undergraduate/Graduate.
Continuation of GLOBAL 690. Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.
Prerequisites: junior standing or consent of instructor.
Course Rules: GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying or interning abroad to receive course credit at appropriate level.
Prerequisites: junior standing; Global Studies or MSP advisor approval.
Course Rules: Retakable with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying or interning abroad to receive course credit at appropriate level.
Prerequisites: junior standing; Global Studies or MSP advisor approval.
Course Rules: Retakable with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GLOBAL 699 Advanced Independent Study
1-3 cr. Undergraduate.
See Independent Study in current catalog. For further information, consult Global Studies Coordinator.
Prerequisites: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Fall 2013, Summer 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

Graduate Studies (GRAD)

GRAD 801 Preparing Future Faculty & Professionals:
1 cr. Graduate.
Content varies. Includes seminars, workshops, and discussions to better understand institutional expectations, improve success in graduate studies, and help pursue academic or professional career paths.
Prerequisites: grad st.
Course Rules: May be retaken to 3 cr max with change in topic. S/U only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

GRAD 803 Teaching & Learning in College: Reflections on Theory and Practice
1 cr. Graduate.
Teaching and learning theories and strategies; reflection on personal beliefs and expectations about the role of teacher and student and understanding of professional practice and development in higher education.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

Greek (GREEK)

GREEK 103 First Semester Greek
4 cr. Undergraduate.
Systematic introduction to the morphology, syntax, and vocabulary of ancient Greek.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 104 Second Semester Greek
4 cr. Undergraduate.
Continuation of Greek 103; systematic introduction to the morphology, syntax, and vocabulary of Greek.
Prerequisites: Greek 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 205 Third Semester Greek
4 cr. Undergraduate.
Continuation of Greek 104; systematic introduction to the morphology, syntax, and vocabulary of Greek.
Prerequisites: Greek 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 289 Internship in Greek, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Greek in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Greek; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
GREEK 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 306 Readings in Ancient Greek Literature:
3 cr. Undergraduate.
Reading of texts of Greek literature, with emphasis on morphology, syntax, and vocabulary.
Prerequisites: Greek 205(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Counts as repeat of only 1 cr of Greek 304 regardless of the number of times 306 is taken. May be retaken w/chg in topic; no max cr.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 489 Internship in Greek, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Greek in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Greek; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 501G Readings in Classical Greek Prose:
3 cr. Undergraduate/Graduate.
Extensive reading in a major author, or in related authors, of ancient Greek prose; e.g., Herodotus, Thucydides, Plato, the Attic Orators, Aristotle, Lucian.
Prerequisites: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 502 Readings in Ancient Greek Poetry:
3 cr. Undergraduate/Graduate.
Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus.
Prerequisites: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 502G Readings in Ancient Greek Poetry:
3 cr. Undergraduate/Graduate.
Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus.
Prerequisites: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 699 Directed Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.
Prerequisites: jr st; 2.0 GPA; instructor consent, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Last Taught: Spring 2019, Fall 2013, Fall 2012, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

GREEK 203 Human Life Cycle
3 cr. Undergraduate.
Views of leading theorists and recent research in the field of human development will be presented with emphasis on biopsychosocial aspects of the five major stages of development from prenatal through senescence.
Prerequisites: soph st or cons instr.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
HCA 212 Drugs Used and Abused
3 cr. Undergraduate.
An introduction to the mechanisms, actions, uses and abuses of selected licit and illicit drugs from a public health perspective.
Prerequisites: soph st or cons instr.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 220 Leading Healthcare Professionals
3 cr. Undergraduate.
Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 220X Leading Healthcare Professionals
3 cr. Undergraduate.
Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual’s cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRece 245 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 249 Writing for Professional Development in Health Administration
3 cr. Undergraduate.
Administrative writing and communication for professional development in the health professions, focused the preparation of health care administration students for a professional work setting.
Prerequisites: soph st; grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 260 Gerontology for Health Care Administrators
3 cr. Undergraduate.
The administrator’s responsibility for improving resident quality of life in long-term care organizations through an overview of sociological, psychological, and biological aspects of aging.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 290 Selected Topics in Health Information Administration:
1-3 cr. Undergraduate.
Content to be determined as instructional need arises.
Prerequisites: none, except as specified for topic.
Course Rules: May be retaken for cr w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 297 Study Abroad
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Fall 2010, Summer 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 300 Professional Development Seminar for Health Administration Students
1 cr. Undergraduate.
This course prepares health care administration undergraduate students to explore related career options and to succeed in obtaining internships, jobs and/or graduate school admission.
Prerequisites: jr st; admitted to HCA major.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 307 Epidemiology for the Health Sciences
3 cr. Undergraduate.
Introduction to the etiology and distribution of disease and risk factors associated with the determination of disease; applications of epidemiology to the health science professions.
Prerequisites: HMS 270(P) or MthStat 215(P)
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 333 Health Organizations Professional Practice Standards
2 cr. Undergraduate.
Overview of regulatory statutes, licensure requirements, accreditation and other professional practice standards that affect healthcare organizations.
Prerequisites: jr st in Hlth Sci or minor in HCA.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 340 Healthcare Process Measurement
3 cr. Undergraduate.
Compilation and presentation of healthcare statistics; use of statistical analysis and graphic presentation of data to examine healthcare processes and support decision-making.
Prerequisites: jr st in HlthSci; HMS 270(P) or MthStat 215(P).
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 361 Post-Acute Care and Management
3 cr. Undergraduate.
Examines healthcare services provided after leaving a hospital; emphasizes the management and coordination of these services and organizations that provide them, to ensure optimal transitions between healthcare services and settings.
Prerequisites: jr st or consent of instructor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
**HCA 362 Legal and Regulatory Aspects of Long-Term Care Facilities**  
3 cr. Undergraduate.  
Legal and regulatory environment of the nursing facility. Reviews state and federal requirements and overviews the survey process designed to protect resident well-being.  
**Prerequisites:** HCA 311(C) & 361(P), or cons instr.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 400 Healthcare Marketing**  
3 cr. Undergraduate.  
Examines basic marketing principles and applies them to the healthcare field; analyzes the diversity of the healthcare consumer's definition of care, and the need to distinguish between individual patients versus corporate America as customer.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 411 Disease Classification Systems I**  
3 cr. Undergraduate.  
Disease classification systems with emphasis on hospital applications.  
**Prerequisites:** HCA 222(HIA 222)(P) or equiv; or cons instr.  
**Last Taught:** Fall 2003, Fall 2002, Fall 2001, Fall 2000.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 421 Operations Management in Healthcare Organizations**  
3 cr. Undergraduate.  
Application of operations management principles to management of healthcare organizations. Emphasis on tools to plan, organize and control.  
**Prerequisites:** Bus Adm 350(P).  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 422 Human Resource Management in Healthcare Organizations**  
3 cr. Undergraduate.  
Introduction of human relation concepts as it applies to the health care organizations. Emphasis on the application of management responsibilities.  
**Prerequisites:** jr st in Hlth Sci or HCA minor.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 423 Health Information Administration in Specialized Healthcare Facilities**  
4 cr. Undergraduate.  
Study of health information systems in ambulatory, long-term, home health, and other non-hospital settings; site visits and site-specific projects.  
**Prerequisites:** sr st in HCA or cons instr.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 430 Patient Registration Management**  
3 cr. Undergraduate.  
**Prerequisites:** none.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 444 Introduction to Text Retrieval and Its Applications in Biomedicine**  
3 cr. Undergraduate/Graduate.  
Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.  
**Prerequisites:** jr st; CompSci 351(P) or HCA 442(P).  
**Course Rules:** Jointly offered with & counts as repeat of CompSci 444, CompSci 744, & HCA 744.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 444G Introduction to Text Retrieval and Its Applications in Biomedicine**  
3 cr. Undergraduate/Graduate.  
Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.  
**Prerequisites:** jr st; CompSci 351(P) or HCA 442(P).  
**Course Rules:** Jointly offered with & counts as repeat of CompSci 444, CompSci 744, & HCA 744.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 450 Healthcare Quality Management**  
3 cr. Undergraduate.  
Theory and development of quality assessment programs in healthcare for patient care improvement; focus on outcomes assessment, operations assessment and improvement; governance, administration, medical staff involvement including quality, patient experience, safety, risk and utilization management.  
**Prerequisites:** KIN 270(P) or MTHSTAT 215(P).  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 460 Healthcare Reimbursement Systems and Policies**  
3 cr. Undergraduate.  
History and functioning of healthcare reimbursement systems. Emphasis on the policies and procedures of government and major third party systems.  
**Prerequisites:** HCA 421(P).  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 480 Competency-Based Internship in Long-Term Care Facilities**  
3 cr. Undergraduate.  
A supervised clinical practicum serving as the capstone fieldwork experience for HCA majors obtaining a sub-major in long-term care administration.  
**Prerequisites:** HCA 362(C) & cons instr.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**HCA 497 Study Abroad**  
1-12 cr. Undergraduate/Graduate.  
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.  
**Prerequisites:** jr st; acceptance to Study Abroad Prog.  
**Course Rules:** May be retaken w/chg in topic.  
**Last Taught:** UWinteriM 2019, Summer 2008.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
HCA 497G Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 502 Healthcare Delivery Systems: National and International Perspectives
3 cr. Undergraduate.
An analysis of health delivery systems in the U.S. and abroad.
Prerequisites: jr st & completion of HS 102(HCA 102)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 520 Clinical Practicum
3 cr. Undergraduate.
Assignments to local health information centers for practical experience; weekly meetings and projects also required.
Prerequisites: sr st in HCA.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 521 Advanced Systems Thinking and Strategy for Healthcare Leaders
3 cr. Undergraduate.
Provides a view of organizational theory and strategy with applications to the institutional operations in the healthcare industry; capstone course providing an in-depth view of systems theory, strategy formulation and implementation in healthcare leadership.
Prerequisites: sr st, HCA 220(P), HCA 340(P), and BUS ADM 330(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 521G Advanced Systems Thinking and Strategy for Healthcare Leaders
3 cr. Undergraduate.
Provides a view of organizational theory and strategy with applications to the institutional operations in the healthcare industry; capstone course providing an in-depth view of systems theory, strategy formulation and implementation in healthcare leadership.
Prerequisites: sr st, HCA 220(P), HCA 340(P), and BUS ADM 330(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 537 Health Information Technology and Management
3 cr. Undergraduate/Graduate.
Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases. Introduction to key components of healthcare databases, telecommunications technology, electronic medical record (EMR), project management, and systems evaluation.
Prerequisites: jr st in Health Sciences program or minor in HCA or HCI cert or cons instr; HS 224(P) or INFOST 110(P) or BUS ADM 230(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 537G Health Information Technology and Management
3 cr. Undergraduate/Graduate.
Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases. Introduction to key components of healthcare databases, telecommunications technology, electronic medical record (EMR), project management, and systems evaluation.
Prerequisites: jr st in Health Sciences program or minor in HCA or HCI cert or cons instr; HS 224(P) or INFOST 110(P) or BUS ADM 230(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 540 Health Information Professional Practice
4 cr. Undergraduate.
Four-week professional practice working with and under supervision of an information manager. Pre-practice meetings and post-practice seminar.
Prerequisites: jr st, HCA 537(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 541G Healthcare Information Systems Analysis and Design
3 cr. Undergraduate/Graduate.
Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective.
Prerequisites: jr st, HCA 537(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 541 Healthcare Information Systems Analysis and Design
3 cr. Undergraduate/Graduate.
Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective.
Prerequisites: jr st, HCA 537(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 542 Healthcare Database Design and Management
3 cr. Undergraduate/Graduate.
Study of database structure, data models, and operations issues. Emphasis on data security, integrity, integration, and access. Healthcare database applications.
Prerequisites: jr st, HCA 541(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 542G Healthcare Database Design and Management
3 cr. Undergraduate/Graduate.
Study of database structure, data models, and operations issues. Emphasis on data security, integrity, integration, and access. Healthcare database applications.
Prerequisites: jr st, HCA 541(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
HCA 580 Health Care Administration Internship
4 cr. Undergraduate.
Capstone course/Internship experience with administrators in health care agencies and health-related organizations (e.g., hospitals/health systems, ambulatory care/group practices, managed care, rehabilitation facilities, residential/long-term care).
Prerequisites: sr st in HCA prog & cons internship coordinator.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 590 Topics in Health Sciences:
1-3 cr. Undergraduate/Graduate.
Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted.
Prerequisites: junior standing; consent of instructor for graduate credit.
Course Rules: May be retaken with change in topic to max of 9 cr for grad students.
Last Taught: Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 590G Topics in Health Sciences:
1-3 cr. Undergraduate/Graduate.
Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted.
Prerequisites: junior standing; consent of instructor for graduate credit.
Course Rules: May be retaken with change in topic to max of 9 cr for grad students.
Last Taught: Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 699 Advanced Independent Study:
1-3 cr. Undergraduate/Graduate.
Prerequisites: U: jr st, 2.5 gpa, writ cons instr; G: grad st; writ cons instr.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 699G Advanced Independent Study:
1-3 cr. Undergraduate/Graduate.
Prerequisites: U: jr st, 2.5 gpa, writ cons instr; G: grad st; writ cons instr.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 700 Introduction to Health Care Informatics
3 cr. Graduate.
An introduction to the history, theory, applications, and organizational context of health informatics.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 721 Health Information Technology Procurement
3 cr. Graduate.
A study of the concepts related to acquisition of information technology, including evaluation, selection, and contracts. Emphasis on integration of information technology and strategic planning.
Prerequisites: grad st; Bus Adm 749(C) or CompSci 557(C) or HCA 442 (HIA 442)(C) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 722 Legal, Ethical and Social Issues in Health Care Informatics
3 cr. Graduate.
Legal, ethical and social issues in the use of health care computer-based technology and information systems.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 723 Health Care Systems Applications - Administrative and Clinical
3 cr. Graduate.
A study of the administrative and clinical applications of health information systems with emphasis on content, functional and technical requirements.
Prerequisites: grad st; Bus Adm 749(C) or CompSci 557(C) or HCA 442 (HIA 442)(C) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 740 Introduction to Biomedical Database Applications
3 cr. Graduate.
The course surveys the emerging field of biomedical database applications, which includes recurrent themes in biomedical database design.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 741 Essential Programming for Health Informatics
3 cr. Graduate.
Study of programming topics and skills necessary to perform commonly encountered computational tasks in the field of biomedical and health informatics.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 742 Computational Intelligence in Health Informatics
3 cr. Graduate.
Study of computational intelligence as applied to biomedical and health care informatics.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 743 Predictive Analytics in Healthcare
3 cr. Graduate.
Study of predictive analytics methods and their healthcare applications.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 744 Text Retrieval and Its Applications in Biomedicine
3 cr. Graduate.
Fundamental issues and current research in text retrieval, text classification and their biomedical applications; programming and use of indexing, query processing, and document retrieval methods.
Prerequisites: grad st; COMPSCI 351 (P) or HCA 442 (P) or cons instr
Course Rules: Not open to students who have cr in COMPSCI 744, COMPSCI 444 or HCA 444.
Last Taught: Fall 2016, Fall 2015, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/
HCA 745 Health Big Data Processing Platforms
3 cr. Graduate.
Study of big data processing techniques in healthcare.
Prerequisites: HCA 741(P); grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 760 Biomedical and Healthcare Terminology and Ontology
3 cr. Graduate.
Theory and application of ontology, controlled terminology, and coding to health information systems.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 776 Biomedical Natural Language Processing
3 cr. Graduate.
Study of basic and essential concepts, techniques, and tools of Natural Language Processing for its application to the biomedical domain.
Prerequisites: grad st; B or better in HCA 741 or cons instr. Computer and internet access required.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 789 Biomedical Information Extraction
3 cr. Graduate.
Applications of Natural Language Processing Methods to Biomedical Information Extraction Tasks.
Prerequisites: grad st; B or better in HCA 776 or cons instr. Counts as a repeat of HCA 590 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 801 Design of Health and Human Service Systems
3 cr. Graduate.
Develop and apply skills in analysis, synthesis and evaluation of systemic components necessary to delivery health care services in the United States of America. Counts as repeat of HCA 590 of same topic.
Prerequisites: grad st; admis to MHA major; or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 813 Health Regulatory Policy and Politics
3 cr. Graduate.
Social and political foundations of healthcare regulations including legal factors affecting patient/client care, operations, the administration of healthcare facilities and systems.
Prerequisites: grad st; admis to MHA major; or cons instr
Course Rules: Counts as repeat of HCA 590 of same topic.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 821 Operations Management in Healthcare Organizations
3 cr. Graduate.
Fundamental principles, concepts, and approaches regarding health care operations management, quality management, and process improvement.
Prerequisites: grad st; admis to MHA major; or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 822 Human Resources Management for Healthcare Executives
3 cr. Graduate.
Human resources management functions, processes and systems within healthcare organizations including recruitment, selection, training of personnel and the legal and regulatory environment.
Prerequisites: grad st; admis to MHA major; or cons instr.
Course Rules: Counts as repeat of HCA 590 of same topic.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 823 Strategic Planning in Health Care Organizations
3 cr. Graduate.
Application of decision support for strategic planning in health care organizations. Counts as repeat of HCA 590 of same topic.
Prerequisites: grad st; admis to MHA major; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 830 Social Media & Healthcare: Opportunities & Pitfalls
3 cr. Graduate.
Social media for healthcare providers, self-management, disease surveillance, mood/depression detection, social support for patients with chronic diseases. Social media as platforms for collaboration.
Prerequisites: grad st; admis to MHA or MS-HCI program; or cons instr
Course Rules: Counts as repeat of HCA 590 of same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 835 Patient-Provider Communication: Strategies & Practices
3 cr. Graduate.
Communication techniques including technological skills, social media skills, inter-cultural skills and the ability to understand the new and evolving empowered patients. Counts as repeat of HCA 590 of same topic.
Prerequisites: grad st; admis to MHA or MS-HCI program; or cons instr
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 843 Quantitative Methods for Healthcare Administrators
3 cr. Graduate.
Basic and intermediate methods that healthcare administrators and their teams use to analyze quantifiable data, including individual and group exploration into the terminology, application, selection, evaluation, and communication of these methods and their results.
Prerequisites: grad st; admis to MHA major; or cons instr
Course Rules: Counts as repeat of HCA 590 with similar topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 865 Financial Management for Health Care Organizations
3 cr. Graduate.
Skills in analysis, synthesis and evaluation of advanced financial management theories, principles, concepts and techniques important to health management.
Prerequisites: grad st; admis to MHA major; or cons instr
Course Rules: Counts as repeat of HCA 590 of same topic.
Current Offerings: https://catalog.uwm.edu/course-search/
HCA 866 Leading Change & Innovation in a System
3 cr. Graduate.
Management of innovation business projects, including multi-tier contracting, virtual manufacturing, quality targeting and pursuit, and global operations. Counts as repeat of HCA 590 of same topic.
Prerequisites: grad st; admis to MHA major; or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 867 Leading Strategic Innovation in a Competitive Global Market
3 cr. Graduate.
Overview of healthcare in 11 developing/ industrialized countries. Integrated approach and synthesis-based organizational framework explored. Leadership strategies for analysis and solutions to current issues developed
Prerequisites: grad st; admis to MHA major; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 868 Health Law and Ethics
3 cr. Graduate.
Critical examination for healthcare specific issues and differences from other industries; financial and accounting practice; legal requirements and constraints; ethical issues facing healthcare managers.
Prerequisites: grad st; admis to MHA major; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 869 Health Care Compliance
3 cr. Graduate.
Fundamentals of health care compliance, following Health Care Compliance Association expectations. Partial preparation for Certification in Healthcare Compliance (CHC) exam offered by Compliance Certification Board.
Prerequisites: grad st; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 870 Internship in Health Care Administration
2 cr. Graduate.
Fieldwork placement in a staff or administrative position.
Prerequisites: grad st; admis to MHA program; or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 871 MHA Capstone
1 cr. Graduate.
Capstone course in which students demonstrate mastery of integration and synthesis of didactic and experiential coursework. Facilitates the turning point from education to professional practice.
Prerequisites: grad st; admis to MHA; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 890 Health Care Informatics Research and Thesis
1-6 cr. Graduate.
Preparation of a thesis under the direction of the student's major professor.
Prerequisites: grad st, cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 891 Health Care Informatics Professional Project
3 cr. Graduate.
Preparation of a professional project under the supervision of the student's major professor.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 909 Guided Teaching Experience in Health Sciences
3 cr. Graduate.
This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.
Prerequisites: grad st; Occ Thpy 900(P); cons instr.
Course Rules: Jointly offered w/ and counts as a repeat of BMS (C L Sci) 909.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

HCA 990 Research and Dissertation
1-6 cr. Graduate.
Research in HealthCare Administration and Informatics.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

Health Sciences (HS)

HS 101 Introduction to Health and Disease
2 cr. Undergraduate.
A survey of health promotion and disease prevention including fitness, nutrition, disease transmission, mental health, drug use, and other current health-related topics.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 102 Healthcare Delivery in the United States
3 cr. Undergraduate.
An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 105 Survey of the Health Professions
3 cr. Undergraduate.
An introduction to health professions, their work settings and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
HS 222 Language of Medicine
3 cr. Undergraduate.
Medical terms used in oral and written communication; reviews terminology by body system with emphasis on application. 
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 224 Computational Tools for Healthcare Professionals
3 cr. Undergraduate.
Healthcare focused introduction to computational tools for information management, including system architecture, process and ethical concepts. Incorporates training in office application software. 
Prerequisites: preprofessional or professional in Health Sciences or HCA minor or HCI cert.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 250 Allied Health Information Methods
2 cr. Undergraduate.
Techniques and processes used by allied health personnel to translate thought and behavior into an acceptable style and format for documentation of activities. 
Prerequisites: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 251 Health Documentation
1 cr. Undergraduate.
Appropriate health documentation techniques will be addressed including the medical, legal and reimbursement issues of patient assessment, problem identification, and patient care plans. 
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 311 Law and Ethics for Healthcare Professionals
3 cr. Undergraduate.
An introduction to law and ethics as it relates to healthcare including bioethics. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings, and ethics in clinical and business decision-making. 
Prerequisites: junior standing or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 311X Law and Ethics for Healthcare Professionals
3 cr. Undergraduate.
An introduction to law and ethics as it relates to healthcare including bioethics. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings, and ethics in clinical and business decision-making. 
Prerequisites: junior standing or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 620 Environmental Health
3 cr. Undergraduate/Graduate.
An overview of the field of environmental and occupational health is presented, including physical, chemical and biological hazards. 
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 620G Environmental Health
3 cr. Undergraduate/Graduate.
An overview of the field of environmental and occupational health is presented, including physical, chemical and biological hazards. 
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

HS 917 Seminar in Health Outcomes Assessment
3 cr. Graduate.
Conceptual innovations and methodological strategies in outcomes research including implementation in clinical research and practice. 
Prerequisites: grad st; cons instr
Last Taught: Fall 2014, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

Hebrew (HEBREW)

HEBREW 101 First Semester Hebrew
4 cr. Undergraduate.
For students with no previous knowledge of Hebrew. Elements of reading and grammar, vocabulary building, and fundamental principles of the language. Reading in simple narrative Hebrew prose. Language laboratory required. 
Prerequisites: none.
Course Rules: Not open to native speakers of Hebrew. May not be taken for cr by students who have completed HEBREW 51 or HEBREW 52.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HEBREW 102 Second Semester Hebrew
4 cr. Undergraduate.
Continuation of HEBREW 101. Language laboratory required. 
Prerequisites: HEBREW 101(P) or HEBREW 51(P) and HEBREW 52(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Not open to native speakers of Hebrew. No cr for students who have cr in HEBREW 53 and HEBREW 54.
Current Offerings: https://catalog.uwm.edu/course-search/

HEBREW 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HEBREW 201 Third-Semester Hebrew
4 cr. Undergraduate.
Advanced grammar and idiom. Easy selections from the Bible and later Hebrew literature. 
Prerequisites: HEBREW 102(P) or HEBREW 54(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Course Rules: Not open to native speakers of Hebrew.
Last Taught: Fall 2019, Fall 2018, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
HEBREW 202 Fourth-Semester Hebrew
4 cr. Undergraduate.
Continuation of HEBREW 201.
Prerequisites: HEBREW 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Course Rules: Not open to native speakers of Hebrew.
Current Offerings: https://catalog.uwm.edu/course-search/

HEBREW 301 Modern Hebrew Literature I in Hebrew
3 cr. Undergraduate.
Selections from modern Hebrew prose and poetry up to 1948. Course conducted substantially in Hebrew.
Prerequisites: jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Course Rules: Not open for cr to students w/ cr in HEBREW 303.
General Education Requirements: HU
Last Taught: Fall 2016, Fall 2010, Fall 2009, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

HEBREW 302 Modern Hebrew Literature II in Hebrew
3 cr. Undergraduate.
Selections from modern Hebrew prose and poetry from 1948 to the present. Course conducted substantially in Hebrew.
Prerequisites: jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Course Rules: Not open for cr to students w/ cr in HEBREW 304.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

History (HIST)

HIST 4G A History of Greek Civilization: The Age of Alexander the Great
3 cr. Undergraduate/Graduate.
The Macedonian state to the death of Alexander the Great, the Hellenistic states.
Prerequisites: jr st; completion of GER English Composition competency req.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 101 Western Civilization: Ancient World to 1500
3 cr. Undergraduate.
A survey of major themes in the social, political, and cultural development of the western world from its ancient origins to 1500.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 102 Western Civilization: 1500 to the Present
3 cr. Undergraduate.
A survey of major themes in the social, political, and cultural development of the western world from 1500 to the present.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 110 Football and American Society
3 cr. Undergraduate.
Football as a game and institution in American society and culture. Topics include gender, militarism, patriotism, labor, tax, and race issues in the US.
Prerequisites: none
Course Rules: Counts as a repeat of Hist 404 with a similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 131 World History to 1500
3 cr. Undergraduate.
Global perspective on the development of the civilizations of Europe, Africa, Asia, and the Americas from prehistoric times to the dawn of the modern era.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 132 World History Since 1500
3 cr. Undergraduate.
Global perspective on the development and integration of the civilizations of the world from the age of European expansion to the present.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 141 Global History of the Family, Gender, and Sexuality
3 cr. Undergraduate.
A thematic survey of global history exploring the changing concepts of gender, sexuality, and the family from prehistory to the present. Topics include genealogy, demography, kinship, law, artistic representation, feminist analysis, and sexual diversity studies.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native-American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req'd service learning component.
General Education Requirements: CD, HU
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 151 American History: 1607 to 1877
3 cr. Undergraduate.
Survey of American social, political and economic development to 1877.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 152 American History: 1877 to the Present
3 cr. Undergraduate.
Survey of American social, political, diplomatic, and economic development, from 1877 to the present.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 175 East Asian Civilization to 1600
3 cr. Undergraduate.
Survey of the culture, history, and institutions of China, Korea, and Japan from earliest times.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Spring 2018, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 176 East Asian Civilization Since 1600
3 cr. Undergraduate.
Survey of the culture, history, and institutions of China, Korea, and Japan since 1600.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 180 Latin American Society and Culture
3 cr. Undergraduate.
Lecture course designed to familiarize students with the broad parameters of Latin American history, emphasis on themes of continuity and change.
Prerequisites: none.
Course Rules: No cr for students with cr in Hist 388, 389, or 390.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2007, Fall 2006, Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 200 Historical Roots of Contemporary Issues
3 cr. Undergraduate.
This course examines the historical dimensions and demonstrates the importance of historical thinking for the understanding of contemporary problems and crises.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2018, Fall 2017, Summer 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 201 The Ancient World: The Near East and Greece
3 cr. Undergraduate.
Mesopotamians, biblical Palestinians, Assyrians, Medes, Persians, and Greeks to 323 B.C.E.
Prerequisites: none.
Course Rules: Not open for cr to students who have had any Hist courses numbered 121, 303, or 304.
General Education Requirements: HU
Last Taught: Spring 2017, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 202 The Ancient World: The Roman Republic and Empire
3 cr. Undergraduate.
Survey of the history of ancient Rome from its beginnings to the time of Constantine the Great.
Prerequisites: none.
Course Rules: Not open for cr to students who have had any Hist courses numbered 122, 307 or 308.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 203 The History of Medieval Europe: The Early Middle Ages
3 cr. Undergraduate.
Studies in the history of Europe and the Mediterranean world from the fourth to the tenth centuries.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 204 The History of Medieval Europe: The High Middle Ages
3 cr. Undergraduate.
Studies in the history of Europe and the Mediterranean world from the eleventh to the fourteenth centuries.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 206 Europe and the Modern World: 1815 to the Present
3 cr. Undergraduate.
Survey of the political, economic, social, and cultural history of modern western civilization.
Prerequisites: none.
Course Rules: Not open for cr to students w/cr in Hist 374 or 375.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 210 The Twentieth Century: A Global History
3 cr. Undergraduate.
War, revolution, colonialism in global perspective; role of science, communication, and technology; shifting concepts of gender, class, race, and authority; internationalization of ideas and commerce.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 215 History of Capitalism
3 cr. Undergraduate.
Examines the role of property rights, technology, forms of enterprise, and business-state relations and the economic benefits and social costs of economic change.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 229 History of Race, Science, and Medicine in the United States
3 cr. Undergraduate.
Education and professionalization of minorities in science, medicine, and nursing; minorities as patients and scientific subjects; biographies of minority scientists; scientific theories of racial inferiority.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Fall 2016, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 235 English History to 1688
3 cr. Undergraduate.
Celtic period, Roman occupation, the Anglo-Saxons, Christianization of England, Norman conquest, feudalism, medieval peasantry, Black Death, rise of the Tudors, Renaissance, Reformation, English revolution.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 236 Britain Since 1688: Rise and Decline of a Great Power
3 cr. Undergraduate.
Examines change and continuities in British life from 1688 to the present against the backdrop of industrialization, imperial expansion, industrial decline, and decolonization.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 239 Poland and its Neighbors, 1795-1914
3 cr. Undergraduate.
The Polish lands and Central Europe in the 19th century, from the Napoleonic era to the First World War.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 241 Women and Gender in Europe: 1350 to 1750
3 cr. Undergraduate.
Social, economic, cultural, religious, and political aspects of the history of women from the Middle Ages to the Enlightenment.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 242 Women and Gender in Europe: 1750 to the Present
3 cr. Undergraduate.
Social, economic, cultural, religious and political aspects of the history of women and gender from the Enlightenment to the present.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 243 History of Women in American Society
3 cr. Undergraduate.
The changing, economic, social, and political roles of American women, their relationship to public and private life, and their evolving self-consciousness.
Prerequisites: none.
Course Rules: Not open to students who have taken Hist 423.
General Education Requirements: HU
Last Taught: Fall 2016, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 248 The First World War
3 cr. Undergraduate.
Origins and course of what became the Great War. The peace settlements. Emphasis on economic and social change as well as military and diplomatic matters.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 249 The Second World War in Europe
3 cr. Undergraduate.
The origins and course of the war in Europe from 1939 to 1945. Emphasis on political and diplomatic aspects as well as military matters.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 262 North American Indian History to 1887  
3 cr. Undergraduate.  
A survey of Native American history from aboriginal times to 1887.  
Emphasis will be placed on American policies and change within Indian societies.  
Prerequisites: none.  
Course Rules: None.  
General Education Requirements: CD, SS  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 263 North American Indian History Since 1887  
3 cr. Undergraduate.  
A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.  
Prerequisites: none.  
Course Rules: None.  
General Education Requirements: CD, SS  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 267 The History of Latinos in the United States  
3 cr. Undergraduate.  
History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.  
Prerequisites: None.  
Course Rules: None.  
General Education Requirements: CD, SS  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 268 History of the American West  
3 cr. Undergraduate.  
The American frontier experience; Indian policy, expansion; fur trade; settlement; communications, mining frontier; cattle frontier, and the impact of westward expansion on the nation.  
Prerequisites: None.  
General Education Requirements: HU  
Last Taught: Fall 2008, Fall 2007, Fall 2006, Fall 2005.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 269 Asian Americans in Historical Perspective  
3 cr. Undergraduate.  
The history of Asians in the United States from 1849 to the present emphasizing the Chinese, Japanese, Filipino, Korean, and southeast Asian experiences of immigration, discrimination, and assimilation in different regions in the United States.  
Prerequisites: None.  
General Education Requirements: CD, HU  
Last Taught: Spring 2019, Spring 2016, Spring 2015, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 270 Topics in American History:  
3 cr. Undergraduate.  
American historical topics of current importance.  
Prerequisites: None.  
Course Rules: May be retaken w/chg in topic. Students may take any combination of Hist 250, 270 & 290 not to exceed 9 cr.  
Last Taught: Fall 2016, Fall 2015, Spring 2015, Spring 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 271 The 1960s in the United States: A Cultural History  
3 cr. Undergraduate.  
Overview of social upheavals; how 1960s shaped racial and ethnic identities, youth culture, sexual mores, community activism, art and fashion, political values; decade’s enduring influence.  
Prerequisites: None.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 274 Ancient Egyptian Civilization  
3 cr. Undergraduate.  
Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.  
Prerequisites: None.  
Course Rules: Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another.  
General Education Requirements: HU  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 280 Islamic Civilization: The Formative Period, ca. 500-1258  
3 cr. Undergraduate.  
The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.  
Prerequisites: None.  
General Education Requirements: HU  
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries  
3 cr. Undergraduate.  
The challenge of colonialisms—Ottoman, Portuguese, French and British—and the response of nationalisms—Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.  
Prerequisites: None.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 284 Buddhism Across Asia  
3 cr. Undergraduate.  
History of Buddhism from the 5th century BCE to the present.  
Prerequisites: None.  
General Education Requirements: HU  
Last Taught: Spring 2019, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 286 The Korean War
3 cr. Undergraduate.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 287 The Vietnam War
3 cr. Undergraduate.
A political, social, and cultural history of the Vietnamese and American
dimensions of the war in Vietnam.
Prerequisites: none.
General Education Requirements: SS
Last Taught: UWinteriM 2020, Fall 2019, UWinteriM 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 289 Internship in History, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of history in a business, organizational,
educational, political, or other appropriate setting.
Prerequisites: intro course in Hist; 2.50 gpa; writ cons supervising faculty
member & dept chair.
Course Rules: One cr earned for academic work based on 40 hours in
internship. May be retaken to 6 cr max.
Last Taught: Fall 2012, Summer 2005, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 290 Topics in Global History:
3 cr. Undergraduate/Graduate.
Global, comparative, and non-western historical topics of current
importance.
Prerequisites: none.
Course Rules: Requires only dept & assoc dean approval. In exceptional circumstances,
course created expressly for offering in a specified enrollment period.
Prerequisites: acceptance for UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max
in any combination of UROP apprenticeship courses. Not open to jrs &
srs.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 291 Historical Encounters:
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a
supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 292 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 293 Seminar on Historical Method: Theory and Approach
3 cr. Undergraduate.
Systematic exploration of the varieties of historical thought and of
common problems in writing history, including causation, generalization,
objectivity, purpose and value of history.
Prerequisites: none.
Course Rules: Not open for cr to students w/cr in, and does not count as
repeat of, Hist 291.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 294 Seminar on Historical Method: Research Techniques
3 cr. Undergraduate.
The practical problems of historical research: question-framing, research
design, use of sources, bibliography, archives and manuscript collections,
quantification; evidence, verification, and exposition.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 295 Historical Encounters:
3 cr. Undergraduate.
Studies in history of contacts and conflicts between differing
civilizations. European, Near Eastern, Asian, African, and American topics
are treated in cross-cultural perspective.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a
supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before
coursework level, content and credits are determined and/or in specially
prepared program coursework.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 303 A History of Greek Civilization: The Greek City-State
3 cr. Undergraduate/Graduate.
Greek history from prehistoric times to the death of Alexander the Great.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 303G A History of Greek Civilization: The Greek City-State
3 cr. Undergraduate/Graduate.
Greek history from prehistoric times to the death of Alexander the Great.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 304 A History of Greek Civilization: The Age of Alexander the Great
3 cr. Undergraduate/Graduate.
The Macedonian state to the death of Alexander the Great; the Hellenistic
states.
Prerequisites: jr st; completion of GER English Composition competency
req.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 307 A History of Rome: The Republic
3 cr. Undergraduate/Graduate.
Roman history from the beginnings of the Roman state to the death of
Julius Caesar.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 307G A History of Rome: The Republic
3 cr. Undergraduate/Graduate.
Roman history from the beginnings of the Roman state to the death of
Julius Caesar.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 308 A History of Rome: The Empire
3 cr. Undergraduate/Graduate.
Roman history from the death of Julius Caesar to the fall of the empire in
the west.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 308G A History of Rome: The Empire
3 cr. Undergraduate/Graduate.
Roman history from the death of Julius Caesar to the fall of the empire in
the west.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 318 Medieval Civilization: The High Middle Ages
3 cr. Undergraduate/Graduate.
The intellectual development of medieval Europe, from the twelfth century
to the fourteenth century.
Prerequisites: jr st; completion of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 318G Medieval Civilization: The High Middle Ages
3 cr. Undergraduate/Graduate.
The intellectual development of medieval Europe, from the twelfth century
to the fourteenth century.
Prerequisites: jr st; completion of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 319 The Era of the Crusades
3 cr. Undergraduate/Graduate.
A consideration of the relationships between western Europe and the
East in the period of the Crusades.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 319G The Era of the Crusades
3 cr. Undergraduate/Graduate.
A consideration of the relationships between western Europe and the
East in the period of the Crusades.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 320 History of Medieval Warfare
3 cr. Undergraduate/Graduate.
Evolution of warfare in the Middle Ages; technology, tactics, strategy, and
interaction with politics and culture.
Prerequisites: jr st; completion of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 320G History of Medieval Warfare
3 cr. Undergraduate/Graduate.
Evolution of warfare in the Middle Ages; technology, tactics, strategy, and
interaction with politics and culture.
Prerequisites: jr st; completion of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 329 The Roman Catholic Church, 1500 to the Present
3 cr. Undergraduate/Graduate.
History of the Catholic Church from the Renaissance to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 329G The Roman Catholic Church, 1500 to the Present
3 cr. Undergraduate/Graduate.
History of the Catholic Church from the Renaissance to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 330 The Papacy in History
3 cr. Undergraduate/Graduate.
Examination of the papacy, the world’s most visible and influential
religious office, from its origins to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: Not open to students w/cr in Hist 600 w/same topic.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 330G The Papacy in History
3 cr. Undergraduate/Graduate.
Examination of the papacy, the world’s most visible and influential
religious office, from its origins to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Course Rules: Not open to students w/cr in Hist 600 w/same topic.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 341 Imperial Russia
3 cr. Undergraduate/Graduate.
Development of autocracy and expansion of Russia’s multi-ethnic empire;
Russian economic, political, and intellectual developments under the
tsars; reform and revolution.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 341G Imperial Russia
3 cr. Undergraduate/Graduate.
Development of autocracy and expansion of Russia's multi-ethnic empire; Russian economic, political, and intellectual developments under the tsars; reform and revolution.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 343G Russia Since 1917
3 cr. Undergraduate/Graduate.
Russian cultural, social, and political history since the revolutions of 1917.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 346 Poland and Its Neighbors, 1914-1945
3 cr. Undergraduate/Graduate.
The effects of two world wars in East-Central Europe. The independence and subjugation of Poland, Czechoslovakia, Hungary and the Baltic States.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2019, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 346G Poland and Its Neighbors, 1914-1945
3 cr. Undergraduate/Graduate.
The effects of two world wars in East-Central Europe. The independence and subjugation of Poland, Czechoslovakia, Hungary and the Baltic States.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2019, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 348G Poland and Its Neighbors, 1945 to the Present
3 cr. Undergraduate/Graduate.
Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 343 Russia Since 1917
3 cr. Undergraduate/Graduate.
Russian cultural, social, and political history since the revolutions of 1917.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 346G Poland and Its Neighbors, 1945 to the Present
3 cr. Undergraduate/Graduate.
Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 355 Modern and Contemporary France
3 cr. Undergraduate/Graduate.
France as a political experiment, complex society, intellectual and cultural center, and imperial power since 1815, with emphasis on the period since the late nineteenth century.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 355G Modern and Contemporary France
3 cr. Undergraduate/Graduate.
France as a political experiment, complex society, intellectual and cultural center, and imperial power since 1815, with emphasis on the period since the late nineteenth century.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 358 The Jews of Modern Europe: History and Culture
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 358G The Jews of Modern Europe: History and Culture
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 363 Germany: Hitler and the Nazi Dictatorship
3 cr. Undergraduate/Graduate.
Rise and fall of Third Reich; Weimar Republic and collapse; Hitler's conquest of power, national socialist state, World War II; catastrophe and reconstruction.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 363G Germany: Hitler and the Nazi Dictatorship
3 cr. Undergraduate/Graduate.
Rise and fall of Third Reich; Weimar Republic and collapse; Hitler’s
conquest of power, national socialist state, World War II; catastrophe and
reconstruction.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 364 The Holocaust: Anti-Semitism & the Fate of Jewish People in
Europe, 1933-45
3 cr. Undergraduate/Graduate.
The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic
and religious minorities; Jewish responses and resistance; legacy of
persecution.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: Not open for cr to students with Hist 295 ‘Historical
Encounters: The Holocaust.’
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 364G The Holocaust: Anti-Semitism & the Fate of Jewish People in
Europe, 1933-45
3 cr. Undergraduate/Graduate.
The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic
and religious minorities; Jewish responses and resistance; legacy of
persecution.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: Not open for cr to students with Hist 295 ‘Historical
Encounters: The Holocaust.’
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 365 Topics in European History
3 cr. Undergraduate/Graduate.
Selected themes and issues in European history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 366 Topics in Global History
3 cr. Undergraduate/Graduate.
Selected issues in global history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 367 Topics in Women's History
3 cr. Undergraduate/Graduate.
Selected themes and issues in women's history.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 367G Topics in Women's History
3 cr. Undergraduate/Graduate.
Selected themes and issues in women's history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 368 The Cold War: The Long View
3 cr. Undergraduate/Graduate.
The Cold War; the recovery of Europe; student revolutions and spiritual
crisis; economic stagnation; moves toward European unification; breakup
of the Soviet bloc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 369 Topics in Global Studies
3 cr. Undergraduate/Graduate.
Selected issues in global studies.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 370 Topics in the History of Religious Thought:
3 cr. Undergraduate/Graduate.
Selected topics in the history of religious thought, for graduate and
advanced undergraduate students. Intensive reading and student reports
will be stressed.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 370G Topics in the History of Religious Thought:
3 cr. Undergraduate/Graduate.
Selected topics in the history of religious thought, for graduate and
advanced undergraduate students. Intensive reading and student reports
will be stressed.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 371 Topics in European History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in European history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 371G Topics in European History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in European history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 372 Topics in Global History:
3 cr. Undergraduate/Graduate.
Selected issues in global history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 372G Topics in Global History:
3 cr. Undergraduate/Graduate.
Selected issues in global history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 373 Topics in Gender and History:
3 cr. Undergraduate/Graduate.
Selected topics in the history of gender, family, and sexuality.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 373G Topics in Gender and History:
3 cr. Undergraduate/Graduate.
Selected topics in the history of gender, family, and sexuality.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 375 Contemporary European History, 1945 to the Present
3 cr. Undergraduate/Graduate.
The Cold War; the recovery of Europe; student revolutions and spiritual
crisis; economic stagnation; moves toward European unification; breakup
of the Soviet bloc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 375G Contemporary European History, 1945 to the Present
3 cr. Undergraduate/Graduate.
The Cold War; the recovery of Europe; student revolutions and spiritual
crisis; economic stagnation; moves toward European unification; breakup
of the Soviet bloc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 376 History of Ancient China, Earliest Times to 220 A.D.
3 cr. Undergraduate/Graduate.
History of China through First Unification and Great Empire of Han Dynasty; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Spring 2013, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 376G History of Ancient China, Earliest Times to 220 A.D.
3 cr. Undergraduate/Graduate.
History of China through First Unification and Great Empire of Han Dynasty; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 377 Modern China
3 cr. Undergraduate/Graduate.
China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 377G Modern China
3 cr. Undergraduate/Graduate.
China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 378 Revolution in China
3 cr. Undergraduate/Graduate.
History of the socialist revolution in China. Background examination of the Chinese communist movement, but major emphasis on People's Republic from 1949 to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 378G Revolution in China
3 cr. Undergraduate/Graduate.
History of the socialist revolution in China. Background examination of the Chinese communist movement, but major emphasis on People's Republic from 1949 to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 379 Introduction to Jewish History
3 cr. Undergraduate.
Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 380 Buddhism: A Cultural History
3 cr. Undergraduate/Graduate.
Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.
Prerequisites: jr st; completion GER English Composition competency req.
Last Taught: Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 380G Buddhism: A Cultural History
3 cr. Undergraduate/Graduate.
Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.
Prerequisites: jr st; completion GER English Composition competency req.
Last Taught: Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 386 Africans in World History: Communities, Cultures, and Ideas
3 cr. Undergraduate/Graduate.
Survey of themes in African history before 1850, prior to the onset of the establishment of widespread "formal" colonial rule.
Prerequisites: jr st; satisfaction of OWC-A GER.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 386G Africans in World History: Communities, Cultures, and Ideas
3 cr. Undergraduate/Graduate.
Survey of themes in African history before 1850, prior to the onset of the establishment of widespread "formal" colonial rule.
Prerequisites: jr st; satisfaction of OWC-A GER.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 387 Colonization in Africa: A History of Resistance and Adaptation
3 cr. Undergraduate/Graduate.
Examines various forms of resistance and responses by Africans to processes of colonization from the 16th to late 20th centuries.
Prerequisites: jr st; satisfaction of OWC-A GER.
Last Taught: Spring 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 387G Colonization in Africa: A History of Resistance and Adaptation
3 cr. Undergraduate/Graduate.
Examines various forms of resistance and responses by Africans to processes of colonization from the 16th to late 20th centuries.
Prerequisites: jr st; satisfaction of OWC-A GER.
Last Taught: Spring 2019, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 392 The History of Southern Africa
3 cr. Undergraduate/Graduate.
Surveys the history of South Africa and Zimbabwe with special reference
to the twentieth century, comparing their struggles for majority rule.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 392G The History of Southern Africa
3 cr. Undergraduate/Graduate.
Surveys the history of South Africa and Zimbabwe with special reference
to the twentieth century, comparing their struggles for majority rule.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 393 History of Mexico
3 cr. Undergraduate/Graduate.
An upper-division survey course spanning all periods of Mexican history,
with special emphasis on the historical origins and development of major
contemporary issues.
Prerequisites: jr st or cons instr; satisfaction of GER English composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 393G History of Mexico
3 cr. Undergraduate/Graduate.
An upper-division survey course spanning all periods of Mexican history,
with special emphasis on the historical origins and development of major
contemporary issues.
Prerequisites: jr st or cons instr; satisfaction of GER English composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 394 History of Japan to 1600
3 cr. Undergraduate/Graduate.
Japanese political, economic, and social development, cultural change,
and major historical figures, from ancient times to 1600.
Prerequisites: jr st; completion of GER English Composition competency req.
Last Taught: Spring 2009, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 394G History of Japan to 1600
3 cr. Undergraduate/Graduate.
Japanese political, economic, and social development, cultural change,
and major historical figures, from ancient times to 1600.
Prerequisites: jr st; completion of GER English Composition competency req.
Last Taught: Spring 2009, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 395 History of Japan Since 1600
3 cr. Undergraduate/Graduate.
Japan’s rise as modern nation-state and economic power; evolution of
social, political, cultural institutions from establishment of Tokugawa
shogunate through Meiji restoration to present.
Prerequisites: jr st; completion of GER English Composition competency req.
Last Taught: Fall 2014, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 395G History of Japan Since 1600
3 cr. Undergraduate/Graduate.
Japan’s rise as modern nation-state and economic power; evolution of
social, political, cultural institutions from establishment of Tokugawa
shogunate through Meiji restoration to present.
Prerequisites: jr st; completion of GER English Composition competency req.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 398 Honors Seminar:
3 cr. Undergraduate.
Reading, discussion, and presentation of papers to help students acquire
an understanding of important historical problems from a humanities
perspective.
Prerequisites: sophomore standing; HONORS 200(P); consent of Honors
College director.
Course Rules: May be retaken w/chg in topic to combined 9 cr max in
Hist 398 & 399. Counts as repeat of History 270 & 404 w/ similar topic.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 399 Honors Seminar:
3 cr. Undergraduate.
Readings, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a social science perspective.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to combined 9 cr max in Hist 398 & 399.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 400G Topics in Latin American and Caribbean History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of South America, Central America, and the Caribbean Islands.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 401G Topics in Middle Eastern History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in Middle Eastern history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 402 Topics in Asian History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of Asia.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 402G Topics in Asian History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of Asia.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 404 Topics in American History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of the United States.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 404G Topics in American History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of the United States.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 405 The Age of the American Revolution, 1750-1789
3 cr. Undergraduate/Graduate.
Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 405G The Age of the American Revolution, 1750-1789
3 cr. Undergraduate/Graduate.
Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 409 Causes of the Civil War, 1828-1861
3 cr. Undergraduate/Graduate.
Examination of the relationship between sectional conflict and political and social developments; the explanation of the causes and timing of the Civil War.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 409G Causes of the Civil War, 1828-1861
3 cr. Undergraduate/Graduate.
Examination of the relationship between sectional conflict and political
and social developments; the examination of the causes and timing of the
Civil War.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 410 Civil War and Reconstruction: The United States, 1861-1877
3 cr. Undergraduate/Graduate.
The military conflict from Sumter to Appomattox; policies of Lincoln,
Reconstruction and aftermath of slavery.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Last Taught: Summer 2010, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 410G Civil War and Reconstruction: The United States, 1861-1877
3 cr. Undergraduate/Graduate.
The military conflict from Sumter to Appomattox; policies of Lincoln,
Reconstruction and aftermath of slavery.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Last Taught: Summer 2010, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 418 America in Prosperity, Depression and War, 1921-1945
3 cr. Undergraduate.
The Twenties as a transition period; the Great Depression; Franklin D.
Roosevelt and the New Deal; foreign policies and U.S. participation in
World War II.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 418G America in Prosperity, Depression and War, 1921-1945
3 cr. Undergraduate/Graduate.
The Twenties as a transition period; the Great Depression; Franklin D.
Roosevelt and the New Deal; foreign policies and U.S. participation in
World War II.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 419 America Since 1945
3 cr. Undergraduate/Graduate.
Postwar America, including social and economic developments, Cold War
rivalries, and the changing political scenes from the Truman years to the
present.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 419G America Since 1945
3 cr. Undergraduate/Graduate.
Postwar America, including social and economic developments, Cold War
rivalries, and the changing political scenes from the Truman years to the
present.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 432 North American Environmental History
3 cr. Undergraduate.
Past interactions between human societies and the natural world on the
North American continent.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 434 The United States as a World Power in the 20th Century
3 cr. Undergraduate/Graduate.
How the United States became involved in two world wars and a cold war,
while spreading its interests and influence across the globe.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 434G The United States as a World Power in the 20th Century
3 cr. Undergraduate/Graduate.
How the United States became involved in two world wars and a cold war,
while spreading its interests and influence across the globe.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 435 Ethnic America: To 1880
3 cr. Undergraduate/Graduate.
Survey of the conflict between cultural diversity and the melting pot,
particularly the bad west.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 435G Ethnic America: To 1880
3 cr. Undergraduate/Graduate.
Survey of the conflict between cultural diversity and the melting pot,
particularly the bad west.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 436 Immigrant America Since 1880
3 cr. Undergraduate.
Survey of the conflict between the ideas of cultural diversity and
assimilation, stressing the differing reception and settlement of white and
non-white immigrants.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 440 History of the American Working Classes
3 cr. Undergraduate/Graduate.
The social and occupational composition of the American working classes and their response to capitalism, socialism, and the organized labor movement.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 440G History of the American Working Classes
3 cr. Undergraduate/Graduate.
The social and occupational composition of the American working classes and their response to capitalism, socialism, and the organized labor movement.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 442 Beer and Brewing in America
3 cr. Undergraduate/Graduate.
Relationship between beer and brewing and social, political, and cultural change in the United States, from colonial times to the present.
Prerequisites: jr st; satisfaction of OWC-A GER.
Course Rules: No credit for students with credit in HIST 404 with same topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 442G Beer and Brewing in America
3 cr. Undergraduate/Graduate.
Relationship between beer and brewing and social, political, and cultural change in the United States, from colonial times to the present.
Prerequisites: jr st; satisfaction of OWC-A GER.
Course Rules: No credit for students with credit in HIST 404 with same topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 444G African Americans from Slavery to Freedom
3 cr. Undergraduate/Graduate.
African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Last Taught: Summer 2009, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 445 African Americans from Slavery to Freedom
3 cr. Undergraduate/Graduate.
African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Last Taught: Summer 2009, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 445G African Americans from Slavery to Freedom
3 cr. Undergraduate/Graduate.
African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Last Taught: Summer 2009, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 446 African Americans Since the Civil War
3 cr. Undergraduate/Graduate.
The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 446G African Americans Since the Civil War
3 cr. Undergraduate/Graduate.
The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 448 Baseball in American History
3 cr. Undergraduate/Graduate.
The origins and development of baseball in the United States, its rise as a spectator sport, and its place in American life and culture.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 448G Baseball in American History
3 cr. Undergraduate/Graduate.
The origins and development of baseball in the United States, its rise as a spectator sport, and its place in American life and culture.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 449 Popular Culture in America, 1800 to the Present
3 cr. Undergraduate/Graduate.
Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars.'
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 449G Popular Culture in America, 1800 to the Present
3 cr. Undergraduate/Graduate.
Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars.'
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 450G Growth of Metropolitan Milwaukee
3 cr. Undergraduate/Graduate.
History of the city and county of Milwaukee and Milwaukee suburbs,
emphasizing population patterns; government; economic change; social,
cultural and educational institutions; and spatial relationships.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 451 History of Wisconsin
3 cr. Undergraduate/Graduate.
Political, economic and social development of Wisconsin, especially
since 1815, with attention to such major personalities as the La Follettes,
Kohlers, Turner, Hoard, Wright, and Gale.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2011, Summer 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 451G History of Wisconsin
3 cr. Undergraduate/Graduate.
Political, economic and social development of Wisconsin, especially
since 1815, with attention to such major personalities as the La Follettes,
Kohlers, Turner, Hoard, Wright, and Gale.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2011, Summer 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 452 History of Religion in American Life to 1870
3 cr. Undergraduate/Graduate.
Development of different religions in America; role of religion in American
society, politics; church attitudes on race and war; lives of religious
leaders; theology.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 452G History of Religion in American Life to 1870
3 cr. Undergraduate/Graduate.
Development of different religions in America; role of religion in American
society, politics; church attitudes on race and war; lives of religious
leaders; theology.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 453 History of Religion in American Life Since 1870
3 cr. Undergraduate/Graduate.
Development of different religions in America; role of religion in American
society, politics; church attitudes on race and war; lives of religious
leaders; theology.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 453G History of Religion in American Life Since 1870
3 cr. Undergraduate/Graduate.
Development of different religions in America; role of religion in American
society, politics; church attitudes on race and war; lives of religious
leaders; theology.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2019, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 460 The History of Poverty in America
3 cr. Undergraduate/Graduate.
Social welfare policies and programs (including evolution of social work
profession), 1620-present, in light of major developments in American
social and intellectual history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 460G The History of Poverty in America
3 cr. Undergraduate/Graduate.
Social welfare policies and programs (including evolution of social work
profession), 1620-present, in light of major developments in American
social and intellectual history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 463 History of the American City
3 cr. Undergraduate/Graduate.
Character of American urbanization and its social and political
consequences; responses to ‘urban problems’ from the early nineteenth
century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 463G History of the American City
3 cr. Undergraduate/Graduate.
Character of American urbanization and its social and political
consequences; responses to ‘urban problems’ from the early nineteenth
century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 468 The American Feminist Movement
3 cr. Undergraduate/Graduate.
History of the American feminist movement from colonial times to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 468G The American Feminist Movement
3 cr. Undergraduate/Graduate.
History of the American feminist movement from colonial times to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 473 History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 473G History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 474 Topics in North American Indian History:
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 474G Topics in North American Indian History:
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 475 American Indian History, Law, and Government
3 cr. Undergraduate/Graduate.
American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty, Federal-Tribal relationship.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 475G American Indian History, Law, and Government
3 cr. Undergraduate/Graduate.
American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty, Federal-Tribal relationship.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 489 Internship in History, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 300-level or above course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.
Prerequisites: jr st; satisfaction of English Composition competency req; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 497G Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.  
Prerequisites: jr st; satisfaction of GER English Composition competency req; acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Fall 2019, Spring 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 499 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.  
Prerequisites: jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 594 Methods and Theory in the Historical Study of Religion:  
3 cr. Undergraduate/Graduate.  
Methods and historiography in the history of religion; focus on a particular religious-historical complex.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 594G Methods and Theory in the Historical Study of Religion:  
3 cr. Undergraduate/Graduate.  
Methods and historiography in the history of religion; focus on a particular religious-historical complex.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 595 The Quantitative Analysis of Historical Data  
3 cr. Undergraduate/Graduate.  
Statistical methods and the computer in analysis of historical problems: statistics through regression; use of social science computer package; special techniques for handling historical data.  
Prerequisites: jr st; completion of Oral and Written Communication (OWC) Competency Part A & Quantitative Literacy (QL) Competency Part A GERs.  
General Education Requirements: QLB  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 595G The Quantitative Analysis of Historical Data  
3 cr. Undergraduate/Graduate.  
Statistical methods and the computer in analysis of historical problems: statistics through regression; use of social science computer package; special techniques for handling historical data.  
Prerequisites: jr st; completion of Oral and Written Communication (OWC) Competency Part A & Quantitative Literacy (QL) Competency Part A GERs.  
General Education Requirements: QLB  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 596 Maps as Historical Sources  
3 cr. Undergraduate/Graduate.  
Introduction to maps, both as historical artifacts and as instruments for reinterpreting historical realities.  
Prerequisites: jr st; completion of GER English Composition competency req.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 596G Maps as Historical Sources  
3 cr. Undergraduate/Graduate.  
Introduction to maps, both as historical artifacts and as instruments for reinterpreting historical realities.  
Prerequisites: jr st; completion of GER English Composition competency req.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 597 Fields and Methods in Public History  
3 cr. Undergraduate/Graduate.  
Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators.  
Prerequisites: jr st; completion of GER English Composition competency req; cons coord of public hist.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 597G Fields and Methods in Public History  
3 cr. Undergraduate/Graduate.  
Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators.  
Prerequisites: jr st; completion of GER English Composition competency req; cons coord of public hist.  
Current Offerings: https://catalog.uwm.edu/course-search/  

HIST 600 Seminar in History:  
3 cr. Undergraduate.  
In-depth investigation of a period or theme in history. Emphasis on designing and writing a research paper based on primary and secondary sources.  
Prerequisites: sr st; satisfaction of GER English Composition & Math Skills competency reqs; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); declared Hist major or Educ/Soc Studies-Broad Field Hist major.  
Course Rules: May be retaken w/chg in topic with petition to department chair to 6 cr max.  
General Education Requirements: OWCB  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 681 Senior Thesis I
3 cr. Undergraduate.
Senior research project for history majors.
**Prerequisites:** sr st, satisfaction of GER English Composition competency req; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); cons faculty thesis advisor & dept chair.
**Last Taught:** Spring 2019, Fall 2013, Summer 2013, Fall 2012.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 682 Senior Thesis II
3 cr. Undergraduate.
Senior research project for history majors.
**Prerequisites:** Hist 681(P); satisfaction of GER English Composition competency req.
**Last Taught:** Fall 2019, Spring 2014, Fall 2013, Spring 2013.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 699 Independent Reading:
1-6 cr. Undergraduate.
Advanced independent work under the supervision of a history faculty member. Students must submit study proposal. For more information, consult dept chair, www4.uwm.edu/letsci/history/undergrad/ internships.cfm.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
**Course Rules:** May be retaken with change in topic.
**Last Taught:** Fall 2019, Summer 2019, UWinteriM 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 700 Introduction to Public History
3 cr. Graduate.
Seminar on community history, relations between academic history and public history, and uses of material culture and oral history.
**Prerequisites:** grad st.
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 701 Internship in Public History
1-6 cr. Graduate.
Requirements determined and evaluation arranged on an individual basis.
**Prerequisites:** grad st; cons coord of public history.
**Course Rules:** Total of 6 cr required for the public history specialization of the M.A. degree and the optional public history minor in the PhD degree.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 712 Historiography and Theory of History
3 cr. Graduate.
Seminar on history of historical writing and thought, including such theoretical problems as objectivity, generalization, the nature of historical explanation, and the value of history.
**Prerequisites:** grad st.
**Last Taught:** Fall 2019, Fall 2018, Spring 2017, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 713 Historical Research Methods
3 cr. Graduate.
Seminar addressing evaluation of evidence, quantitative methods, and application of social science methodology to historical research.
**Prerequisites:** grad st.
**Last Taught:** Spring 2020, Spring 2018, Fall 2016, Fall 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 715 Research Methods in Local History
3 cr. Graduate.
Seminar on history and methodology of studying small towns, rural areas, cities, and neighborhoods in the United States.
**Prerequisites:** grad st.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 716 Professional and Pedagogical Issues in History
3 cr. Graduate.
Seminar on professional and pedagogical aspects of historical work, including course management, lecture writing, grading, and grant writing.
**Prerequisites:** grad st.
**Last Taught:** Spring 2019, Fall 2015, Spring 2013, Fall 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 717 History and the New Media
3 cr. Graduate.
Seminar on uses of new forms of technology in historical research and teaching.
**Prerequisites:** grad st.
**Last Taught:** Fall 2017, Spring 2015, Spring 2014, Spring 2010.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 740 Approaches to the Modern I
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.
**Prerequisites:** grad st.
**Course Rules:** English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.
**Last Taught:** Spring 2017, Fall 2011, Fall 2007.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 741 Approaches to the Modern II
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.
**Prerequisites:** grad st.
**Course Rules:** English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.
**Last Taught:** Spring 2013, Fall 2010, Fall 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 800 Colloquium on U.S. History:
3 cr. Graduate.
Seminar on issues and problems in U.S. history. Specific topics announced in Timetable each time course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Last Taught:** Fall 2018, Spring 2018, Fall 2016, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

HIST 833 Colloquium on Urban History:
3 cr. Graduate.
Seminar on issues and problems in urban development and institutions. Specific topics announced in Schedule of Classes each time course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/ chg in topic to 9 cr max.
**Last Taught:** Spring 2012, Spring 2009, Fall 2006, Spring 1999.
**Current Offerings:** https://catalog.uwm.edu/course-search/
HIST 839 Approaches to Global History
3 cr. Graduate.
Seminar on historiography and practices of global and comparative history.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 840 Colloquium on Global History:
3 cr. Graduate.
Seminar on historical developments from a global or comparative perspective. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 841 Colloquium on Modern Studies:
3 cr. Graduate.
Seminar on historical developments from a modern studies perspective. Specific topics and any additional prerequisites announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 850 Colloquium on European History:
3 cr. Graduate.
Seminar on issues and problems in European history. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 880 Colloquium: European Diplomatic History
3 cr. Graduate.
Studies in modern European diplomatic history, emphasizing historiography, interpretation, and archival sources.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 900 Seminar on U.S. History:
3 cr. Graduate.
Topics in U.S. history. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 904 Seminar in Modern America
3 cr. Graduate.
Research in United States history since 1921.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 907 Seminar on U.S. Intellectual and Cultural History
3 cr. Graduate.
Intellectual and cultural figures and movements in U.S. history.
Prerequisites: grad st.
Last Taught: Fall 2014, Fall 2010, Spring 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 940 Seminar on Global History:
3 cr. Graduate.
Historical developments from a global or comparative perspective. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 950 Seminar on European History:
3 cr. Graduate.
Topics in European history. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Fall 2012, Spring 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 970 Seminar on European Political History
3 cr. Graduate.
State, society, revolution, war and empire in European history.
Prerequisites: grad st.
Last Taught: Fall 2011, Spring 2009, Fall 2006, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 971 Seminar on the History of American Urban Problems
3 cr. Graduate.
Historical analysis of the current problems of housing, race relations, the powers and functions of municipal government, law enforcement, and city planning in the United States.
Prerequisites: grad st.
Course Rules: Hist 971 & Urb Std 971 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 980 Growth of Urban Society
3 cr. Graduate.
Seminar in historical, social, and ecological growth and development of urban agglomerations. Comparative framework will be used to examine the urban process.
Prerequisites: grad st.
Course Rules: Hist 980 & Urb Std 980 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
HIST 985 Master's Thesis Research
1-6 cr. Graduate.
For students in the thesis option.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 989 Master's Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising professor.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 990 Dissertation Research
1-6 cr. Graduate.
Research or dissertation work for students in the doctoral program in History.
Prerequisites: grad st; cons instr.
Course Rules: Retakable as necessary to fulfill dissertation requirements.
Current Offerings: https://catalog.uwm.edu/course-search/

HIST 999 Doctoral Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising professor.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Hmong Studies (HMONG)

HMONG 105 First-Semester Hmong
3 cr. Undergraduate.
Beginning Hmong for students with no previous knowledge of the language.
Prerequisites: none.
Course Rules: No cr for students w/cr in Hmong 107 or Hmong 108.
Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 106 Second-Semester Hmong
3 cr. Undergraduate.
Continuation of Hmong 105.
Prerequisites: Hmong 105/Linguis 105(P).
Course Rules: No cr for students w/cr in Hmong 107 or Hmong 108.
Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 107 First-Semester Hmong Literacy
3 cr. Undergraduate.
Introduction to literacy skills in Hmong. Intended for speakers of Hmong.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 108 Second-Semester Hmong Literacy
3 cr. Undergraduate.
Continuation of Hmong 107(FLL 107/Linguis 161).
Prerequisites: Hmong 107(FLL 107/Linguis 161)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 199 Independent Study:
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Students must submit a study proposal.
Prerequisites: 2.0 GPA; consent of instructor, program director, and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 265 Hmong Americans: History, Culture, and Contemporary Life
3 cr. Undergraduate.
Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America.
Prerequisites: none.
Course Rules: Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
HMONG 289 Internship in Hmong Studies, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 GPA, cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 296 UROP Apprenticeship:
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: UWinteriM 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HMONG 489 Internship in Hmong Studies, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 200 Honors Seminar: The Shaping of the Modern Mind:
3 cr. Undergraduate.
Introduction to honors work through seminar study of basic texts and problems in the development of modern civilization.
Prerequisites: satisfaction of OWC-A; cons Honors College dir.
Course Rules: Not open to students w/cr in Honors courses at 300-level or above. Retakable once w/chg in topic. Students may not elect cr/no cr option.
General Education Requirements: HU, OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 202 Honors Seminar: The Shaping of the Modern Mind:
3 cr. Undergraduate.
Introduction to honors work through seminar study of basic texts and problems in the development of modern civilization.
Prerequisites: satisfaction of OWC-A; cons Honors College dir.
Course Rules: Not open to students w/cr in Honors courses at 300-level or above. Retakable once w/chg in topic. Students may not elect cr/no cr option.
General Education Requirements: HU, OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 297 Study Abroad:
1-9 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog & cons Honors College dir.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
HONORS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 310 Introduction to Clinical Medicine for Premedical Students
1 cr. Undergraduate.
Through both lecture/discussion and experience, students will explore
various components of the medical profession in a clinical setting.
Prerequisites: soph st; Bio Sci 150 or Chem 102; cons both Honors College dir & premedical advisor, L&S.
Last Taught: Fall 2009, Fall 2008, Fall 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 350 Honors Seminar in the Humanities:
3 cr. Undergraduate.
Seminar on interdisciplinary topics or on the broader implications of a faculty member's research.
Prerequisites: soph st; Honors 200 (P); cons Honors College dir.
Course Rules: Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 351 University Honors Seminar in the Social Sciences:
3 cr. Undergraduate.
Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research.
Prerequisites: soph st; Honors 200 (P), cons Honors College Dir.
Course Rules: Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 352 Honors Seminar in the Natural Sciences:
3 cr. Undergraduate.
Seminar on interdisciplinary topics or on the broader implications of a faculty member's research.
Prerequisites: soph st; Honors 200 (P); cons Honors College dir.
Course Rules: Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 380 Honors Seminar in the Arts:
3 cr. Undergraduate.
Selected topics in the theory and practice of creative and expressive arts.
Taught by practicing artists.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: Retakable once w/chg in topic.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 497 Honors Study Abroad:
1-9 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog; cons Honors College dir.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 685 Honors Tutorial
1-3 cr. Undergraduate.
Advanced study in interdisciplinary topics.
Prerequisites: jr st in Honors College, cons instr & Honors College dir.
Course Rules: Retakable to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 686 Research in Honors
3-6 cr. Undergraduate.
Student assists with a faculty member's current research, then designs and completes original major research paper under the faculty member's supervision.
Prerequisites: jr st in Honors College, 9 cr in Honors, cons instr & Honors College dir.
Course Rules: Retakable once to 6H cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 687 Senior Honors Project
3-6 cr. Undergraduate.
Performance, exhibit, musical composition, or technical/professional project completed under supervision of faculty member. For students in majors in which a thesis is not appropriate.
Prerequisites: sr st in Honors College, cons instr & Honors College dir.
Course Rules: Not open for cr or enroll to students with Honors 689(ER).
Retakable once to 6H cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

HONORS 689 Senior Honors Thesis
3-6 cr. Undergraduate.
Independent research project under faculty supervision. Honors with Distinction awarded for successful completion of thesis.
Prerequisites: sr st in Honors College; cons instr & Honors College dir.
Course Rules: Not open for cr or enroll to students with Honors 687(ER).
Retakable once to 6H cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
Industrial and Labor Relations (IND REL)

IND REL 701 Industrial and Labor Relations
3 cr. Graduate.
Industrial relations systems, unions and management as institutions, work place as a socio-economic unit, labor market analysis, human resource management and collective bargaining.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 711 Labor Relations Law
3 cr. Graduate.
Legal aspects of labor relations; operations of National Labor Relations Board, representation issues, use of economic weapons, good faith bargaining, enforcement, Wisconsin Employment Relations Commission.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 712 Employment Law
3 cr. Graduate.
Introduction to federal laws and regulations covering such topics as wage standards, unemployment compensation, osha, alien employment, social security, employee safety and prohibited discrimination.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 715 Workplace Dispute Resolution
3 cr. Graduate.
Examination of the processes for dispute resolution; their usefulness and application in both union and non-union settings.
Prerequisites: grad st & Econ 753(P), or cons Instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 716 Compensation: Theory and Practice
3 cr. Graduate.
Examination of pay policies and practices, their impact on employees, internal and external determinants, and problems of administration.
Prerequisites: grad st; Bus Adm 731(P) & 738(P) or cons Instr.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 717 Employee Benefits
3 cr. Graduate.
Examination of role and scope of employee benefits, their determinants, and problems of administration.
Prerequisites: grad st; Econ 753(R); Ind Rel 712(R).
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 720 Economics of Personnel
3 cr. Graduate.
Use of various economic models to examine personnel practices.
Prerequisites: grad st; Econ 103(P) or equiv.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 725 Total Rewards Compensation
3 cr. Graduate.
Advanced workplace perspective for aligning business and reward strategies including developing, administering and evaluating compensation and benefit programs.
Prerequisites: grad st or cons instr.
Course Rules: Counts as a repeat of Ind Rel 800 w/the same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 731 Research Tools for Practitioners in Human Resources and Labor Relations
3 cr. Graduate.
Planning and carrying out simple surveys; evaluating policies, programs, and procedures in organizations; interpreting, evaluating and using research conducted by others.
Prerequisites: grad st; Econ 210(P) or Bus Adm 210(P) or cons instr.
Course Rules: Ind Rel 731 and BusMgmt 731 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 734 Worker Participation
3 cr. Graduate.
Analyzes worker participation programs using history, economic and industrial relations theories, and empirical research and case studies.
Prerequisites: grad st; Econ 447(451)(P) or cons instr.
Course Rules: Jointly-offered w/ & counts as repeat of Econ 754.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 800 Current Issues in Industrial Relations:
1-3 cr. Graduate.
Topics course covering subjects such as quality work, innovations, employee testing, dispute resolution.
Prerequisites: grad st; Ind Rel 701(P) or cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 801 Research Project in Industrial and Labor Relations
3 cr. Graduate.
Work with a faculty advisor on the development and preparation of a research project on a current industrial relations issue.
Prerequisites: completion of 24 cr in MHRLR Prog. cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

IND REL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2016, Summer 2013, Fall 2006, Summer 2006.
Current Offerings: https://catalog.uwm.edu/course-search/
IND ENG 111 Introduction to Engineering
3 cr. Undergraduate.
Introduction to Engineering Disciplines, problem solving methods, teamwork, technical communication, professionalism, and ethics.
Prerequisites: Math 116(C).
Course Rules: Counts as repeat of Ind Eng 210.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 112 Engineering Drawing & Computer Aided Design/Drafting
3 cr. Undergraduate.
Visualization, Engineering Drawing, CAD, Geographic Information Systems (GIS), Group Project, Team Work.
Prerequisites: Math 116(P).
Course Rules: Counts as repeat of Ind Eng 101.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 299 Independent Reading and Work
1-3 cr. Undergraduate.
Credit hours to be arranged between student and staff on an individual basis.
Prerequisites: cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 350 Manufacturing Processes
3 cr. Undergraduate.
Broad study of processes and equipment used in modern production. Design considerations, economic factors, automation, metals and plastics processing, fabrication of electronic materials.
Prerequisites: MatEng 201(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 360 Engineering Economic Analysis
3 cr. Undergraduate.
Concept of time value of money. Economical evaluation of alternate projects and replacement policies using methods such as present worth, rate of return, and annual cost. Engineering investment decision analysis.
Prerequisites: jr st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 367 Introductory Statistics for Physical Sciences and Engineering Students
3 cr. Undergraduate.
Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; regression analysis.
Prerequisites: B- or better in Math 211(P) or B- or better in Math 213(P) or C or better in Math 221(P) or C or better in Math 231(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 369 Introduction to Probability and Statistical Inference
1 cr. Undergraduate.
Concepts of probability and statistics.
Prerequisites: MATH 221(P) or MATH 231(P).
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 370 Introduction to Operations Analysis
3 cr. Undergraduate.
Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; regression analysis.
Prerequisites: B- or better in Math 211(P) or B- or better in Math 213(P) or C or better in Math 221(P) or C or better in Math 231(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 390 Senior Thesis
1-3 cr. Undergraduate.
Independent research under the direction of a faculty member; submission of a written thesis is required.
Prerequisites: sr st & cons instr.
Course Rules: 3 cr total required. Need not all be taken during the same semester.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 405 Product Realization
3 cr. Undergraduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
IND ENG 405G Product Realization
3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 455G Operations Research I
3 cr. Undergraduate/Graduate.
Fundamental optimization methods; linear programming, integer programming, network models, and dynamic programming methods of operations research. Modeling and applications of these methods in practical situations.
Prerequisites: jr st; Math 233(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 455G Operations Research I
3 cr. Undergraduate/Graduate.
Fundamental optimization methods; linear programming, integer programming, network models, and dynamic programming methods of operations research. Modeling and applications of these methods in practical situations.
Prerequisites: jr st; Math 233(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 470G Methods Engineering
3 cr. Undergraduate/Graduate.
Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints.
Prerequisites: junior standing and IND ENG 367(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 367(P) or concurrent enrollment in one of the following: COMPSCI 151(C), COMPSCI 202(C), COMPSCI 240(C), or COMPSCI 250(C).

IND ENG 470G Methods Engineering
3 cr. Undergraduate/Graduate.
Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints.
Prerequisites: junior standing and IND ENG 367(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 475G Simulation Methodology
3 cr. Undergraduate/Graduate.
Fundamentals of discrete-event simulation. Random number and random variable generation for simulation modeling and analysis using simulation software.
Prerequisites: IND ENG 367(P) and concurrent enrollment in one of the following: COMPSCI 151(C), COMPSCI 202(C), COMPSCI 240(C), or COMPSCI 250(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 475G Simulation Methodology
3 cr. Undergraduate/Graduate.
Fundamentals of discrete-event simulation. Random number and random variable generation for simulation modeling and analysis using simulation software.
Prerequisites: IND ENG 367(P) and concurrent enrollment in one of the following: COMPSCI 151(C), COMPSCI 202(C), COMPSCI 240(C), or COMPSCI 250(C).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 485 Senior Design Project
3 cr. Undergraduate.
Capstone design projects involving design of a production/service system. Progress reports, final report, and presentation.
Prerequisites: sr st, Ind Eng 370(P), 455(P), 465(C), 470(C), 475(P), 571(C), 580(C), 583(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 499 Ad Hoc:
1-12 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
IND ENG 550 Control of Automated Manufacturing Systems
3 cr. Undergraduate/Graduate.
Theoretical and practical skills to design and control automated manufacturing systems and industrial processed through science-based theoretical advancements and state-of-the-art industrial applications.
Prerequisites: jr st; ElecEng 234(P); 301(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 550G Control of Automated Manufacturing Systems
3 cr. Undergraduate/Graduate.
Theoretical and practical skills to design and control automated manufacturing systems and industrial processed through science-based theoretical advancements and state-of-the-art industrial applications.
Prerequisites: jr st; ElecEng 234(P); 301(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 571 Quality Control
3 cr. Undergraduate/Graduate.
Statistical process quality design and control. Process control charts, six sigma and process capability assessment.
Prerequisites: junior standing and IND ENG 367(P), or equivalent course in statistics; or graduate standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 571G Quality Control
3 cr. Undergraduate/Graduate.
Statistical process quality design and control. Process control charts, six sigma and process capability assessment.
Prerequisites: junior standing and IND ENG 367(P), or equivalent course in statistics; or graduate standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 572 Reliability Engineering
3 cr. Undergraduate/Graduate.
Concepts and methods for the design, testing, and estimation of component and system reliabilities. Failures and failure rates; life tests; series-parallel, and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design and implementation.
Prerequisites: jr st; Ind Eng 467(P) or equiv.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 572G Reliability Engineering
3 cr. Undergraduate/Graduate.
Concepts and methods for the design, testing, and estimation of component and system reliabilities. Failures and failure rates; life tests; series-parallel, and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design and implementation.
Prerequisites: jr st; Ind Eng 467(P) or equiv.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 575 Design of Experiments
3 cr. Undergraduate/Graduate.
Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-outter designs, robustness, confounding and blocking, and response surface methodology.
Prerequisites: IND ENG 367(P) or equivalent.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 575G Design of Experiments
3 cr. Undergraduate/Graduate.
Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-outter designs, robustness, confounding and blocking, and response surface methodology.
Prerequisites: IND ENG 367(P) or equivalent.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 577 Dimensional Measurement and Tolerancing
3 cr. Undergraduate/Graduate.
Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing, and devices for statistical process control.
Prerequisites: sr st & Ind Eng 467(P).
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 577G Dimensional Measurement and Tolerancing
3 cr. Undergraduate/Graduate.
Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing, and devices for statistical process control.
Prerequisites: sr st & Ind Eng 467(P).
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 580 Ergonomics
3 cr. Undergraduate/Graduate.
Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment.
Prerequisites: IND ENG 367(P); CIV ENG 201(P) or CIV ENG 203(P).
Course Rules: 2 hrs lec & 2 hrs lab/week.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 580G Ergonomics
3 cr. Undergraduate/Graduate.
Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment.
Prerequisites: IND ENG 367(P); CIV ENG 201(P) or CIV ENG 203(P).
Course Rules: 2 hrs lec & 2 hrs lab/week.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 582 Ergonomic Job Evaluation Techniques
3 cr. Undergraduate/Graduate.
Review of popular, contemporary methods of job evaluation for risk of low back pain and distal upper extremity.
Prerequisites: sr st & Ind Eng 580(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
IND ENG 582G Ergonomic Job Evaluation Techniques
3 cr. Undergraduate/Graduate.
Review of popular, contemporary methods of job evaluation for risk of low back pain and distal upper extremity.
Prerequisites: sr st & Ind Eng 580(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 583 Facility Layout and Material Handling
3 cr. Undergraduate/Graduate.
Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems.
Prerequisites: sr st, Ind Eng 370(P), Ind Eng 455(C)
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 583G Facility Layout and Material Handling
3 cr. Undergraduate/Graduate.
Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems.
Prerequisites: sr st, Ind Eng 370(P), Ind Eng 455(C)
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 584 Biodynamics of Human Motion
3 cr. Undergraduate/Graduate.
Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.
Prerequisites: jr st, ElecEng 234(P); Civ Eng202(C).
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 584G Biodynamics of Human Motion
3 cr. Undergraduate/Graduate.
Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.
Prerequisites: jr st, ElecEng 234(P); Civ Eng202(C).
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 587 Lean Production Systems
3 cr. Undergraduate/Graduate.
An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory.
Prerequisites: Ind Eng 350(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 587G Lean Production Systems
3 cr. Undergraduate/Graduate.
An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory.
Prerequisites: Ind Eng 350(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 590 Topics in Industrial and Systems Engineering:
1-3 cr. Undergraduate/Graduate.
Selected topics of current interest in an area of systems design.
Prerequisites: sr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 590G Topics in Industrial and Systems Engineering:
1-3 cr. Undergraduate/Graduate.
Selected topics of current interest in an area of systems design.
Prerequisites: sr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: Limited to max of 6 cr applied toward undergraduate degree.
Last Taught: Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 699G Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: Limited to max of 6 cr applied toward undergraduate degree.
Last Taught: Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st.
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700,
MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 716 Engineering Statistical Analysis
3 cr. Graduate.
Statistical methods and their applications to solve engineering decision-making problems, integrating computer usage. Inference, probability and probability distributions, data analysis, regression analysis, and anova.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 717 Operations Research in Engineering Management
3 cr. Graduate.
Various operations research techniques for engineering management decision-making. Linear programming, integer programming, network models, multi-objective decision-making, decision analysis, and queuing models.
Prerequisites: grad st; Ind Eng 716(P).
Last Taught: Fall 2019, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
IND ENG 750 Group Technology and Process Planning
3 cr. Graduate.
Group technology and computer-aided process planning; classification and coding schemes, machine loading, production planning/scheduling models, process planning, expert systems in capp.
Prerequisites: grad st; Ind Eng 450 & 455.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 751 Flexible Manufacturing Systems
3 cr. Graduate.
Hierarchy of manufacturing control, process control, advanced concepts in fms, optimal design planning and production scheduling in fms.
Prerequisites: grad st; Ind Eng 450 & 455.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 765 Operations Research Methods
3 cr. Graduate.
Formulation and application of mathematical models for the design of industrial systems. Mathematical programming, network flow, decision theory and simulation techniques are used for solving single and multi-stage production, inventory and service problems.
Prerequisites: grad st; Ind Eng 465 & 767.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 772 Facilities Planning
3 cr. Graduate.
Modern techniques in facilities planning, location of the facility, systems approach, factors and evaluation. Systematic layout planning, computerized methods. Assembly line balancing, simulation techniques. Cpm and pert. Projects and laboratory work.
Prerequisites: grad st; Ind Eng 455 & 470.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 777 Scheduling and realtime resource management
3 cr. Graduate.
Scheduling (allocation of resources over time) and realtime resource management techniques in highly informative production and service systems.
Prerequisites: grad st; Ind Eng 370(P), 475(P), 455(P), 465(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 780 Advanced Ergonomics - Low Back Pain
3 cr. Graduate.
An in-depth study of lbp causes, risk factors, preventive approaches, job evaluation/design techniques. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580(P); a course in anatomy & physiology or cons instr.
Last Taught: Spring 2019, Spring 2013, Fall 2009, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 783 Advanced Ergonomics - Upper Extremity
3 cr. Graduate.
In depth study of musculoskeletal disorders of upper extremity, personal and job risk factors, job analysis, design and prevention. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580(P); a course in Anatomy & Physiology or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 786 Applied Biostatistics in Ergonomics
3 cr. Graduate.
Statistical methods used in ergonomic studies to analyze, summarize, and report measurements and data. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580(P); a course in statistics or cons instr.
Course Rules: Jointly offered with & counts as repeat of OccThpy 786.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 790 Design Project
2-3 cr. Graduate.
Integration and application of concepts learned in other ergonomic courses to analyze and abate ergonomic hazards in a scientific manner.
Prerequisites: grad st; Ind Eng 780(P), 783(P), 786(P), 788(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of OccThpy 790.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 890 Advanced Topics in Industrial and Systems Engineering: 1-3 cr. Graduate.
Topics vary. Advanced topics of current interest in an area of systems-design; review of recent literature. Subject matter may be student initiated. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

IND ENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: https://catalog.uwm.edu/course-search/
Information Studies (INFOST)

INFOST 101 Information Literacy
1 cr. Undergraduate.
Emphasis on techniques in information gathering for students to build expertise in exploring information sources and services. Provides foundation for independent life-long learning experiences.
Prerequisites: none.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 110 Introduction to Information Science and Technology
3 cr. Undergraduate.
Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 120 Information Technology Ethics
3 cr. Undergraduate.
Comprehensive overview of the current ethical issues in information and technology use.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 120X Information Technology Ethics
3 cr. Undergraduate.
Comprehensive overview of the current ethical issues in information and technology use.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 150 Introduction to Information Resources on the Internet
3 cr. Undergraduate.
Overview of the internet and its resources and services. Introduction to information retrieval and research skills on the internet.
Prerequisites: none.
Last Taught: Spring 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 210 Information Resources for Research
3 cr. Undergraduate.
Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 230 Organization of Knowledge
3 cr. Undergraduate.
An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 240 Web Design I
3 cr. Undergraduate.
Uses popular authoring tools to cover the basics of organizing information.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 250 Internet Communications and Information Transfer
3 cr. Undergraduate.
Special emphasis will be upon the Internet and information communications and new communication technologies influencing information services.
Prerequisites: InfoSt(L&I Sci) 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 250X Internet Communications and Information Transfer
3 cr. Undergraduate.
Special emphasis will be upon the Internet and information communications and new communication technologies influencing information services.
Prerequisites: InfoSt(L&I Sci) 110(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 291 Special Topics in Information Science and Technology
1-3 cr. Undergraduate.
New developments and research in information science & technology. Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 310 Human Factors in Information Seeking and Use
3 cr. Undergraduate.
Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services.
Prerequisites: InfoSt 110(C).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 315 Knowledge Organization for Information Science and Technology
3 cr. Undergraduate.
Introduction to the organization of knowledge for information science and technology. Covers theory and construction of knowledge organization systems (taxonomies, ontologies, controlled vocabularies, metadata schema) and data structures for information sharing.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 320 Web Design II
3 cr. Undergraduate.
Examination and utilization of advanced technologies and practices being employed in web usability and design.
Prerequisites: InfoSt 240(P).
Course Rules: Counts as repeat of InfoSt 491 Advanced Web Design.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 325 Information Security I
3 cr. Undergraduate.
Introduction to issues and practices related to the protection of information and other digital assets.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 491 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 330 Electronic Information Retrieval Systems
3 cr. Undergraduate.
Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. Includes weekly laboratory sessions.
Prerequisites: InfoSt 210(P) & 110(P).
Last Taught: Spring 2017, Fall 2016, Spring 2016, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 340 Introduction to Systems Analysis
3 cr. Undergraduate.
Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user’s perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage.
Prerequisites: InfoSt 310(C) & 410(C).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 345 Information Management
3 cr. Undergraduate.
Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user’s perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage.
Prerequisites: InfoSt 310(C) & 410(C).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 350 Introduction to Application Development
3 cr. Undergraduate.
Introduction to the fundamental concepts of application development. Basic application development concepts will be explained, analyzed, and practiced.
Prerequisites: InfoSt 110(C) or cons instr.
Course Rules: Counts as repeat of InfoSt 291 with topic Intro to Programming.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 370 Data Analysis and Visualization for the Information Professional
3 cr. Undergraduate.
Introduction to data analysis and visualization using simple statistical analyses to create graphical depictions of data that can improve comprehension, communication, and decision making.
Prerequisites: satisfaction of GER QL Part A.
General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 375 Multimedia Web Design
3 cr. Undergraduate.
Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web.
Prerequisites: InfoSt 240(P).
Course Rules: Counts as repeat of InfoSt 491 with topic of Flash.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 383 Native Mobile Applications
3 cr. Undergraduate.
Fundamentals of native mobile application development including development environments, mobile OS considerations, and the potential and limitations of mobile applications.
Prerequisites: INFOST 350(P) or consent of instructor.
Course Rules: Counts as repeat of INFOST 491 w/ similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 385 Information Security II
3 cr. Undergraduate.
Advanced topics and practices in information security including social, technological, educational and economic implications of information security and privacy.
Prerequisites: InfoSt 325(P).
Course Rules: Counts as repeat of InfoSt(L&I Sci) 491 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 399 Independent Study
1-3 cr. Undergraduate.
Guided readings or research under faculty supervision.
Prerequisites: jr st; 24 cr in IST major; cons instr.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 408 Nonprofit Information Technology
3 cr. Undergraduate.
Provides experiential project-based learning opportunities to UWM students while working on a technology project for a local nonprofit organization.
Prerequisites: none.
Course Rules: ART 408, DAC 408, and INFOST 408 are jointly offered and count as repeats of one another. Repeatable to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 410 Database Information Retrieval Systems
3 cr. Undergraduate.
Introduces the design and development of different types of electronic information systems, including database types, design issues, application development, and software selection and evaluation.
Prerequisites: sophomore standing.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 425 Books, Paper, and Their Preservation
1 cr. Undergraduate/Graduate.
History, theory, and practical application of conservation solutions currently practiced by professional conservators.
Prerequisites: jr st.
Last Taught: Fall 2006, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 425G Books, Paper, and Their Preservation
1 cr. Undergraduate/Graduate.
History, theory, and practical application of conservation solutions currently practiced by professional conservators.
Prerequisites: jr st.
Last Taught: Fall 2006, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 430 Multimedia Application Development
3 cr. Undergraduate.
This course covers the basic concepts of multimedia and their applications in information services, including image representation and processing and multimedia information delivery.
Prerequisites: InfoSt(Sci) 310(P).
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 440 Web Application Development
3 cr. Undergraduate.
The interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.
Prerequisites: InfoSt 240(P), InfoSt 350(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 465 Legal Aspects of Information Products and Services
3 cr. Undergraduate/Graduate.
Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.
Prerequisites: junior standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 465G Legal Aspects of Information Products and Services
3 cr. Undergraduate/Graduate.
Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.
Prerequisites: junior standing.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 490 Senior Capstone
3 cr. Undergraduate.
Analysis, creation, development and presentation of an information retrieval system project for an information organization.
Prerequisites: senior standing; InfoSt 340(P), 410(P) and 440(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 491 Advanced Topics in Information Science & Technology
1-3 cr. Undergraduate.
Advanced examination of emerging developments and research in information science & technology.
Prerequisites: jr st; additional prereq announced each offering.
Course Rules: May be retaken w/chg in topic to 15 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 495 Information Internship
1-3 cr. Undergraduate.
Field experience of 50-150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.
Prerequisites: 12 cr in the IST major; cons instr.
Course Rules: May enroll in 2 sections in same term to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 501 Foundations of Library and Information Science
3 cr. Undergraduate/Graduate.
Historical introduction to library and information science (LIS); outline of the role of information agencies in disseminating knowledge to users; overview of research in LIS.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 501G Foundations of Library and Information Science
3 cr. Undergraduate/Graduate.
Historical introduction to library and information science (LIS); outline of
the role of information agencies in disseminating knowledge to users;
overview of research in LIS.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 511 Organization of Information
3 cr. Undergraduate/Graduate.
Introduction to basic concepts in the theoretical, practical, and
technological aspects of information organization.
Prerequisites: jr st.
Course Rules: Not open for cr to students with cr in InfoSt(L&I Sci) 530.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 511G Organization of Information
3 cr. Undergraduate/Graduate.
Introduction to basic concepts in the theoretical, practical, and
technological aspects of information organization.
Prerequisites: jr st.
Course Rules: Not open for cr to students with cr in InfoSt(L&I Sci) 530.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 520 Managing Library Collections
3 cr. Undergraduate/Graduate.
Theory and practice of collection management across formats including
selection tools and criteria, acquisition and evaluation of collections,
deselection, preservation, and other collection development topics.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P) or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 520G Managing Library Collections
3 cr. Undergraduate/Graduate.
Theory and practice of collection management across formats including
selection tools and criteria, acquisition and evaluation of collections,
deselection, preservation, and other collection development topics.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P) or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 521 Introduction to Reference Services and Resources
3 cr. Undergraduate/Graduate.
An investigation into reference services, reference interviews, and
organization, including critical examination of basic reference sources.
Prerequisites: jr st; INFOST 501(P), INFOST 571(P); or consent of
instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 521G Introduction to Reference Services and Resources
3 cr. Undergraduate/Graduate.
An investigation into reference services, reference interviews, and
organization, including critical examination of basic reference sources.
Prerequisites: jr st; INFOST 501(P), INFOST 571(P); or consent of
instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 524 Management of Libraries and Information Services
3 cr. Undergraduate/Graduate.
The library/information center as a service organization. Management
of the library/information center: planning, budgeting, decision making,
leadership styles, motivation, communication, personnel and financial
management.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P); or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 524G Management of Libraries and Information Services
3 cr. Undergraduate/Graduate.
The library/information center as a service organization. Management
of the library/information center: planning, budgeting, decision making,
leadership styles, motivation, communication, personnel and financial
management.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P); or cons instr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 527 Information Access and Retrieval
3 cr. Undergraduate/Graduate.
An overview of the concepts and theory related to information retrieval.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 527G Information Access and Retrieval
3 cr. Undergraduate/Graduate.
An overview of the concepts and theory related to information retrieval.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 547 User-Centered Interaction Design
3 cr. Undergraduate/Graduate.
Introduction of human-computer interaction theories and design
processes. Emphasis is on applied user experience (UX) design.
Prerequisites: sr st.
Course Rules: Jointly offered with & counts as repeat of CompSci 547.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 547G User-Centered Interaction Design
3 cr. Undergraduate/Graduate.
Introduction of human-computer interaction theories and design
processes. Emphasis is on applied user experience (UX) design.
Prerequisites: sr st.
Course Rules: Jointly offered with & counts as repeat of CompSci 547.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 571 Information Access and Retrieval
3 cr. Undergraduate/Graduate.
An overview of the concepts and theory related to information retrieval.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 571G Information Access and Retrieval
3 cr. Undergraduate/Graduate.
An overview of the concepts and theory related to information retrieval.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 582 Introduction to Data Science
3 cr. Undergraduate/Graduate.
Introduces basic concepts, background, theoretical, practical and
 technological aspects of data science.
Prerequisites: jr st; or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 582G Introduction to Data Science
3 cr. Undergraduate/Graduate.
Introduces basic concepts, background, theoretical, practical and technological aspects of data science.
Prerequisites: jr st; or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 583 Survey of Information Security
3 cr. Undergraduate/Graduate.
Introduces information security concepts, issues, and technological practices related to privacy, trust, and protection of information and digital assets.
Prerequisites: jr st or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 583G Survey of Information Security
3 cr. Undergraduate/Graduate.
Introduces information security concepts, issues, and technological practices related to privacy, trust, and protection of information and digital assets.
Prerequisites: jr st or cons instr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 584 Survey of Web and Mobile Content Development
3 cr. Undergraduate/Graduate.
Current best practices and theory for the development of content and applications across different platforms, systems, and devices emphasizing responsive design and frameworks.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 584G Survey of Web and Mobile Content Development
3 cr. Undergraduate/Graduate.
Current best practices and theory for the development of content and applications across different platforms, systems, and devices emphasizing responsive design and frameworks.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 603G History of Books and Printing
3 cr. Undergraduate/Graduate.
The people, ideas, and events in the history of bookmaking from ancient times to the 1890's.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 603G History of Books and Printing
3 cr. Undergraduate/Graduate.
The people, ideas, and events in the history of bookmaking from ancient times to the 1890's.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 611 Cataloging for Small Libraries
1 cr. Undergraduate/Graduate.
Survey of the application of standards and rules to the creation and management of library catalogs for small libraries.
Prerequisites: graduate standing and INFOST 511(P), or enrollment in the School Library Certification program.
Course Rules: Previously INFOST 711.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 611G Cataloging for Small Libraries
1 cr. Undergraduate/Graduate.
Survey of the application of standards and rules to the creation and management of library catalogs for small libraries.
Prerequisites: graduate standing and INFOST 511(P), or enrollment in the School Library Certification program.
Course Rules: Previously INFOST 711.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 619 Topics in Information Organization:
1-3 cr. Undergraduate/Graduate.
Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: jr st & InfoSt(L&I Sci) 511(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 619G Topics in Information Organization:
1-3 cr. Undergraduate/Graduate.
Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: jr st & InfoSt(L&I Sci) 511(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 622 Information Marketing
3 cr. Undergraduate/Graduate.
Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.
Prerequisites: jr st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 622G Information Marketing
3 cr. Undergraduate/Graduate.
Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.
Prerequisites: jr st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 627 Music Librarianship
3 cr. Undergraduate/Graduate.
Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.
Prerequisites: jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 627G Music Librarianship  
3 cr. Undergraduate/Graduate.  
Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.  
Prerequisites: jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 640 Information Literacy Instruction  
3 cr. Undergraduate/Graduate.  
Concepts and principles involved in teaching information literacy; emphasis on organizing and developing courses and individual sessions.  
Prerequisites: junior standing and INFOST 501(P) or consent of instructor.  
Course Rules: Previously INFOST 740.  
Last Taught: Summer 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 640G Information Literacy Instruction  
3 cr. Undergraduate/Graduate.  
Concepts and principles involved in teaching information literacy; emphasis on organizing and developing courses and individual sessions.  
Prerequisites: junior standing and INFOST 501(P) or consent of instructor.  
Course Rules: Previously INFOST 740.  
Last Taught: Summer 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 642 School Library Media Programs and Resources  
3 cr. Undergraduate/Graduate.  
A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.  
Prerequisites: junior standing; INFOST 511(P); INFOST 520(P); INFOST 571(P); or consent of instructor.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 642G School Library Media Programs and Resources  
3 cr. Undergraduate/Graduate.  
A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.  
Prerequisites: junior standing; INFOST 511(P); INFOST 520(P); INFOST 571(P); or consent of instructor.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 643 Pre-Student Teaching Experience in School Libraries  
1-3 cr. Undergraduate/Graduate.  
A 50-150 hour (1cr. = 50hr.) school library pre-student teaching experience for students working towards their K-12 library media license who are not already certified teachers.  
Prerequisites: jr st; School Library Media Certification program students on Pathway 2A & 2B only. INFOST 520(P); INF 645 or INF 646(P) and INF 642(C). or consent of instructor.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 643G Pre-Student Teaching Experience in School Libraries  
1-3 cr. Undergraduate/Graduate.  
A 50-150 hour (1cr. = 50hr.) school library pre-student teaching experience for students working towards their K-12 library media license who are not already certified teachers.  
Prerequisites: jr st; School Library Media Certification program students on Pathway 2A & 2B only. INFOST 520(P); INF 645 or INF 646(P) and INF 642(C). or consent of instructor.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 644 Clinical Experience in School Libraries  
1-12 cr. Undergraduate/Graduate.  
Field experience of 1-4 U/G credits (50-200 hours of clinical practice) to 12 undergrad credits (a full semester student teaching) in elementary and secondary school library media services under faculty and field supervisor guidance.  
Prerequisites: jr st; school library media certification program students only; INFOST 642(C); or cons instr.  
Course Rules: Retakeable to 12 credits max.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 644G Clinical Experience in School Libraries  
1-12 cr. Undergraduate/Graduate.  
Field experience of 1-4 U/G credits (50-200 hours of clinical practice) to 12 undergrad credits (a full semester student teaching) in elementary and secondary school library media services under faculty and field supervisor guidance.  
Prerequisites: jr st; school library media certification program students only; INFOST 642(C); or cons instr.  
Course Rules: Retakeable to 12 credits max.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 645 Library Materials for Children  
3 cr. Undergraduate/Graduate.  
Introduction to print and media resources available in library collections; selection procedures, evaluation criteria, access and promotion of use of materials.  
Prerequisites: jr st.  
Last Taught: Summer 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 645G Library Materials for Children  
3 cr. Undergraduate/Graduate.  
Introduction to print and media resources available in library collections; selection procedures, evaluation criteria, access and promotion of use of materials.  
Prerequisites: jr st.  
Last Taught: Summer 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 646 Library Materials for Young Adults  
3 cr. Undergraduate/Graduate.  
Criteria for evaluation and selection of materials for young adults, emphasizing current resources, techniques of reading guidance and book talks.  
Prerequisites: jr st.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 646G Library Materials for Young Adults
3 cr. Undergraduate/Graduate.
Criteria for evaluation and selection of materials for young adults, emphasizing current resources, techniques of reading guidance and book talks.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 647 Library Services for Children and Young Adults
3 cr. Undergraduate/Graduate.
A foundation for developing, planning, and programming library services to meet the needs and interests of children and teens.
Prerequisites: junior standing and INFOST 646(P), INFOST 646(P), or INFOST 646(C); or consent of instructor.
Course Rules: Previously INFOST 745.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 647G Library Services for Children and Young Adults
3 cr. Undergraduate/Graduate.
A foundation for developing, planning, and programming library services to meet the needs and interests of children and teens.
Prerequisites: junior standing and INFOST 646(P), INFOST 646(P), or INFOST 646(C); or consent of instructor.
Course Rules: Previously INFOST 745.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 650 An Introduction to Modern Archives Administration
3 cr. Undergraduate/Graduate.
An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies.
Prerequisites: jr st & InfoSt(L&I Sci) 655(P) or cons instr.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 650G An Introduction to Modern Archives Administration
3 cr. Undergraduate/Graduate.
An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies.
Prerequisites: jr st & InfoSt(L&I Sci) 655(P) or cons instr.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 661 Information Ethics
3 cr. Undergraduate/Graduate.
Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.
Prerequisites: jr st & InfoSt(L&I Sci) 651(P); 651(P) or cons instr.
Course Rules: Counts as a repeat of L&I Sci 691 with similar topic/title.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 665G Information and Records Management
3 cr. Undergraduate/Graduate.
Principles and practices of information and records management: organizational information needs, retention, schedules, vital records protection, micrographics, records centers and records management policy.
Prerequisites: jr st.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 666G Electronic Documents and Records Management
3 cr. Undergraduate/Graduate.
Advanced concepts, unique challenges, and on-going issues of electronic records management, including automated systems, information lifecycle management, access, legality, media stability, migration, and long-term preservation.
Prerequisites: jr st; InfoSt(L&I Sci) 655(P) or cons instr.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 667G Information Policy
3 cr. Undergraduate/Graduate.
Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 670 Information Policy
3 cr. Undergraduate/Graduate.
Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 661G Information Ethics
3 cr. Undergraduate/Graduate.
Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.
Prerequisites: jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.
Course Rules: Counts as a repeat of L&I Sci 691 with similar topic/title.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 670 Instructional Technologies
3 cr. Undergraduate/Graduate.
Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes.
Prerequisites: jr st; InfoSt(L&I Sci) 632(P).
Course Rules: No degree cr for students with cr in InfoSt(L&I Sci) 668 or 669.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 670G Instructional Technologies
3 cr. Undergraduate/Graduate.
Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes.
Prerequisites: jr st; InfoSt(L&I Sci) 632(P).
Course Rules: No degree cr for students with cr in InfoSt(L&I Sci) 668 or 669.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 674 The Search Engine Society
3 cr. Undergraduate/Graduate.
Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P) or cons instr.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.
Last Taught: Spring 2020, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 674G The Search Engine Society
3 cr. Undergraduate/Graduate.
Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P) or cons instr.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.
Last Taught: Spring 2020, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 675 Information Technology and Organizations
3 cr. Undergraduate/Graduate.
Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers.
Prerequisites: jr st.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 675G Information Technology and Organizations
3 cr. Undergraduate/Graduate.
Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers.
Prerequisites: jr st.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 682 Digital Libraries
3 cr. Undergraduate/Graduate.
Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways.
Prerequisites: jr st & InfoSt(L&I Sci) 110(P); 501(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 682G Digital Libraries
3 cr. Undergraduate/Graduate.
Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways.
Prerequisites: jr st & InfoSt(L&I Sci) 110(P); 501(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 685 Electronic Publishing and Web Design
3 cr. Undergraduate/Graduate.
An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 685G Electronic Publishing and Web Design
3 cr. Undergraduate/Graduate.
An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 687 Data Analysis for Data Science
3 cr. Undergraduate/Graduate.
Development and use of data science analysis skills in statistics, probability, forecasting, prediction, optimization, clustering and visualization.
Prerequisites: junior standing and completion of one of the following: INFOST 370(P), INFOST 582(P), or INFOST 799(P).
Course Rules: Counts as a repeat of INFOST 691 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 687G Data Analysis for Data Science
3 cr. Undergraduate/Graduate.
Development and use of data science analysis skills in statistics, probability, forecasting, prediction, optimization, clustering and visualization.
Prerequisites: junior standing and completion of one of the following: INFOST 370(P), INFOST 582(P), or INFOST 799(P).
Course Rules: Counts as a repeat of INFOST 691 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 691 Special Topics in Information Science:
1-3 cr. Undergraduate/Graduate.
An exploration of current topics in information science.
Prerequisites: junior standing or consent of instructor.
Course Rules: Course prerequisites vary by topic; please consult the syllabus or contact the instructor for topic-specific prerequisites. May be retaken with change in topic to max of 9 cr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 691G Special Topics in Information Science:
1-3 cr. Undergraduate/Graduate.
An exploration of current topics in information science.
Prerequisites: junior standing or consent of instructor.
Course Rules: Course prerequisites vary by topic; please consult the syllabus or contact the instructor for topic-specific prerequisites. May be retaken with change in topic to max of 9 cr.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 692 Special Topics in Information Science and Technology
1-3 cr. Undergraduate/Graduate.
An exploration of current topics in information science and technology. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/ chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 692G Special Topics in Information Science and Technology
1-3 cr. Undergraduate/Graduate.
An exploration of current topics in information science and technology. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/ chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 695 Ethical Hacking I
3 cr. Undergraduate/Graduate.
Fundamental concepts in computer security testing, the evolution of ethical hacking and the latest tools used in cyber security to test different computer systems.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 695G Ethical Hacking I
3 cr. Undergraduate/Graduate.
Fundamental concepts in computer security testing, the evolution of ethical hacking and the latest tools used in cyber security to test different computer systems.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 697 Cisco Routing & Switching I
3 cr. Undergraduate/Graduate.
Networking and security, including IP Address translation (masking), subnetting, access lists, port security, VPNs, routing protocols and passwords.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 697G Cisco Routing & Switching I
3 cr. Undergraduate/Graduate.
Networking and security, including IP Address translation (masking), subnetting, access lists, port security, VPNs, routing protocols and passwords.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 712 Resource Description for Library Catalogs
3 cr. Graduate.
Application of standards and rules to the construction of tools for information retrieval, primarily digital resources and catalogs in library and information environments.
Prerequisites: grad st; InfoSt 511 (P) or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 714 Metadata
3 cr. Graduate.
Principles and application of metadata for networked information resource organization, representation, retrieval, and interoperability using a variety of schemes; focus on cultural heritage digital repositories.
Prerequisites: grad st; MLIS prereqs: InfoSt 511(P); InfoSt 571(R) MSIST prereq: InfoSt 582(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 716 Thesaurus Construction
3 cr. Graduate.
Overview of thesaurus construction, vocabulary control and ontology. Design and construction of thesauri, including domain analysis, vocabulary extraction, concept clustering, ordering, structural relations, thesaurus maintenance.
Prerequisites: grad st; InfoSt(L&I Sci) 511(531)(P), 591(P).
Last Taught: Spring 2019, Summer 2017, Spring 2016, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 717 Information Architecture
3 cr. Graduate.
Introduction to information architecture and user experience design, focusing on designing user-centered organization, labeling, navigation, search, metadata, and knowledge organization systems for websites.
Prerequisites: grad st; InfoSt(L&I Sci) 511(531)(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 719 Advanced Topics in Information Organization
3 cr. Graduate.
Advanced study of a particular topic in Information Organization.
Prerequisites: grad st; InfoSt(L&I Sci) 511(P) or cons instr.
Course Rules: May be repeated w/ chg in topic to 9 cr. max.
Last Taught: Spring 2015, Fall 2014, Summer 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 722 Entrepreneurship and Innovation for LIS Professionals
3 cr. Graduate.
Introduces entrepreneurial concepts and practices in the library and information science professions, examines alternative career options, and provides an opportunity to apply entrepreneurial methods and processes.
Prerequisites: InfoSt 501(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 734 Library Services and Resources for Adults
3 cr. Graduate.
Introduction to the wide range of services and materials with which the library meets the needs of adult patrons.
Prerequisites: grad st; InfoSt(L&I Sci) 520(C), 571(P); or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 735 The Academic Library
3 cr. Graduate.
Administration of the college and university library, including a study of budgets, personnel, building and collections requirements, and cooperative programs.
Prerequisites: grad st; InfoSt(L&I Sci) 501(C), 511(531)(P), 520(C), 524(540)(R); & 571(C); or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 736 The Public Library
3 cr. Graduate.
Overview of issues and functions of American public libraries; including trends in governance, program planning and evaluation, community analysis, alternative funding, library use and users.
Prerequisites: graduate standing and INFOST 501(C), or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 738 Legal Information Sources and Services
3 cr. Graduate.
A study of legal sources of federal and Wisconsin law including the use of law finders, statutes, cases and digests.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P)
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 739 Digital Information Services
3 cr. Graduate.
Examination of major issues involved in digital information services. Comparison of differences and similarities between digital and face-to-face services, evaluation of DIS and current trends.
Prerequisites: grad st; InfoSt(L&I Sci) 682(P); 510(P); & 571(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 741 Multicultural Children's Literature
3 cr. Graduate.
Exploration of children's literature representing racialized groups in the United States; discussion will focus on evaluating and selecting material.
Prerequisites: grad st; InfoSt(L&I Sci) 645(P) or equivalent; or cons instr
Course Rules: Counts as repeat of 691 w/ same topic.
Last Taught: Spring 2019, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 750 Arrangement and Description in Archives
3 cr. Graduate.
Development of the intellectual framework and critical evaluation skills necessary for the arrangement and description of archival collections.
Prerequisites: grad st; InfoSt(L&I Sci) 650(681)(C) or cons instr.
Last Taught: Spring 2020, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 752 Archival Outreach: Programs and Services
3 cr. Graduate.
An introduction to archival outreach and reference services for sustaining an archival program committed to public service.
Prerequisites: grad st; InfoSt 650(C) or cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 753 Preserving Information Media
3 cr. Graduate.
Examines all aspects of archival preservation of multiple media formats. Includes discussions of preservation practice, policy and programming in an archives.
Prerequisites: grad st; InfoSt(L&I Sci) 650(P) or cons instr.
Course Rules: InfoSt(L&I Sci) 791 with similar topic counts as repeat of 753.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 758 Technology Issues in Archives
3 cr. Graduate.
This course addresses technology issues facing archivists today and its theoretical and practical implications in collection management, arrangement and description, reference, digitization, and electronic records.
Prerequisites: grad st; INFOST 650; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 759 Fieldwork in Archives and Manuscripts
1-3 cr. Graduate.
Field experience of 50 to 150 hours in an archives or manuscript
repository under faculty and field supervisor guidance. Student must also
complete a supervised field project.
Prerequisites: graduate standing and completion of one of the following:
INFOST 524(P), INFOST 571(P), INFOST 650(P), or HIST 775(P), or
consent of instructor.
Course Rules: May be repeated for total of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 761 Information Privacy
3 cr. Graduate.
Graduate seminar on information privacy, undertaking a multi-faceted,
multi-disciplinary examination of the relationships between information,
technology, law and privacy in our digital society.
Prerequisites: grad st
Course Rules: Counts as repeat of 763 w/similar topic.
Last Taught: Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 763 Topics in Information Policy
1-3 cr. Graduate.
An array of coursework specifically related to the social, ethical,
ecconomic, legal, and philosophical aspects of information.
Prerequisites: grad st
Course Rules: May be repeated w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 774 Online Information Retrieval
3 cr. Graduate.
Study of bibliographic, non-bibliographic, full-text databases, including
document delivery alternatives, evaluation and testing.
Prerequisites: grad st; InfoSt 501(P); 571(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 780 XML for Libraries
3 cr. Graduate.
Overview of general markup languages; concepts and components of
extensible markup language, and the future of publishing and libraries.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 781 Applied Information and Internet Technologies
3 cr. Graduate.
Introduces information and network concepts and technologies
in information science professions, such as libraries and provides
opportunities to apply information theories in problem solving processes.
Prerequisites: graduate standing.
Course Rules: Previously INFOST 632.
Last Taught: Summer 2011, Fall 2010, Summer 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 783 Information Storage and Retrieval
3 cr. Graduate.
Fundamental analysis and design principles and theories used in
systems for the storage, processing, and retrieval of information.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 784 Information Security Management
3 cr. Graduate.
Investigation of key aspects of information security management such as
policy, risk analysis and management, education and awareness training,
legal compliance, ethical and legal conduct.
Prerequisites: grad st; InfoSt 583 (P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 785 Database Management Systems for Information
Professionals
3 cr. Graduate.
Study of microcomputer data base management software (DBMS) and
information retrieval (IR) systems and their potential applications for
information services.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 786 Multimedia
3 cr. Graduate.
Multimedia and its applications in information systems and instructional
environments. Students develop essential skills in the evaluation,
creation, editing, and rendering of multimedia.
Prerequisites: grad st; cons instr
Course Rules: Counts as repeat of InfoSt(L&I Sci) 891 w/ same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 788 Information Systems: Analysis and Design
3 cr. Graduate.
Analysis, design, and evaluation of information systems. The information
system mission, goals and objectives are used to develop measures for
judging system effectiveness and efficiency.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 789 Electronic Networking and Information Services:
3 cr. Graduate.
Outlines basic concepts of communication technology, electronic
networking, and available information resources and services for
information professionals.
Prerequisites: grad st; InfoSt(L&I Sci) 510(P), 571(P) or cons instr.
Last Taught: Fall 2006, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 790 Project Design, Implementation, and Evaluation
3 cr. Graduate.
Culminating experience for MSIST degree program comprising the design,
implementation, and evaluation of a capstone project related to the
MSIST degree tracks.
Prerequisites: grad st; MSIST degree candidates only; InfoSt 547(P),
InfoSt 582(P), InfoSt 583(P), InfoSt 584(P), CompSt 701(P), CompSt
702(P), and CompSt 703(P), or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
INFO ST 791 Topics in Library and Information Science
1-3 cr. Graduate.
Graduate level treatment of current topics in library and information science. Specific topic and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st; InfoSt 501(P) or cons instr
Course Rules: May be repeated w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 799 Research Methods in Information Studies
3 cr. Graduate.
Knowledge of research concepts, methods, and evaluation in library and information science, and applications of research in the information professions.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P); 511(531)(P); 571(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 823 Seminar in International and Multicultural Information Services
3 cr. Graduate.
Implications of global and multicultural trends for information services. Creation, diffusion and use of information in cross-cultural settings.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 524(540)(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 832 Government Information Sources and Services
3 cr. Graduate.
Availability, selection, and use of federal, state, and local documents; international organization documents; or documents of selected foreign governments.
Prerequisites: grad st & InfoSt(L&I Sci) 571(P).
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 833 Business Information Sources and Services
3 cr. Graduate.
Information services and basic sources in business and competitive intelligence.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P).
Last Taught: Spring 2013, Fall 2009, Fall 2008, Summer 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 835 Information Sources and Services in the Health Sciences
3 cr. Graduate.
A survey of the basic sources used to locate information in the fields of medicine, nursing, allied health and health care administration, along with an introduction to the traditional & innovative services offered by health science libraries.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P)
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 850 Seminar in Modern Archives Administration
3 cr. Graduate.
In-depth exploration of several aspects of archival work through extensive readings, discussions, practical exercises and a major seminar paper.
Prerequisites: grad st; InfoSt(L&I Sci) 650(681)(P) or cons instr.
Course Rules: Counts as repeat of Hist 777.
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 855 Advanced Appraisal
3 cr. Graduate.
An overview of the history of archival appraisal and manuscript collecting, surveys recent appraisal methodologies and theories, providing practical experience in the application of appraisal theory and assessing the value of organizational records.
Prerequisites: grad st; INFOST 650; or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 861 Seminar in Intellectual Freedom
3 cr. Graduate.
Principles and practices of intellectual freedom, as related to the information professions. Emphasizes, but is not limited to, current issues in the U.S.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 862 Legal Issues for Library and Information Managers
3 cr. Graduate.
Legal issues arising in various library settings, including access rights, privacy and confidentiality, copyright, intellectual freedom and information liability and malpractice.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 863 Feminism, Librarianship, and Information
3 cr. Graduate.
The nature of librarianship as a profession, issues related to information and technology, and practices of information services from gendered perspectives using applicable feminist theories.
Prerequisites: grad st; InfoSt 501(P); InfoSt 591(P)
Current Offerings: https://catalog.uwm.edu/course-search/

INFO ST 864 Critical Approaches to Public Librarianship
3 cr. Graduate.
Explores advanced concepts of the public library as a political institution in the public sphere. Includes investigations of legislative foundations, funding, governance and social engagement.
Prerequisites: grad st; InfoSt 501(P), 736(P) or cons instr.
Course Rules: Counts as repeat of InfoSt 891 Philosophy, Policy, Politics.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 888 Candidate for Degree:
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 891 Advanced Topics in Library and Information Science:
1-3 cr. Graduate.
Seminar in advanced current topics in library and information science. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons instr. Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 898 Master’s Thesis
1-3 cr. Graduate.
Research and writing in consultation with SOIS thesis advisor for M.L.I.S. candidates pursuing the Thesis Option. May be repeated until completion and defense of the thesis.
Prerequisites: grad st; InfoSt(L&I Sci) 890(P) or equiv; cons of thesis advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 899 Master’s Independent Study
3 cr. Graduate.
Advanced study under faculty guidance, on a special aspect of library and information services. Regular faculty consultation and written report(s) required.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P), 591(P), or cons instr. Max of 6 cr between InfoSt(L&I Sci) 899 and 999 may count toward the MLIS.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 901 Current Issues in Information Studies
3 cr. Graduate.
Current topical issues in information studies, socializes doctoral students to research culture, and analyzes current research topics in the field.
Prerequisites: grad st (doctoral st); or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 902 Theoretical Foundations in Information Studies
3 cr. Graduate.
This doctoral seminar introduces students to a range of fundamental theoretical foundations and models relevant to information studies.
Prerequisites: grad st (doctoral st) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 903 Qualitative Research Methods
3 cr. Graduate.
Qualitative research design, data collection, data analysis tools and techniques as well as theory building in the context of information study research.
Prerequisites: grad st (doctoral st) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 904 Quantitative Research Methods
3 cr. Graduate.
Quantitative research designs, data process and analysis, inferential statistical methods and theories, applications in information studies, and evaluation of quantitative research studies.
Prerequisites: grad st (doctoral st) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 905 Mixed Methods Research for Information Studies
3 cr. Graduate.
Presents techniques for designing and executing mixed methods research in information studies as well as arguments for and against the use of mixed methods for theory building.
Prerequisites: Counts as repeat of INFOST 891 w/same topic. Prereqs: For MLIS: InfoSt 799(591)(P) or equiv or cons instr. For PhD: InfoSt 903(P); InfoSt 904(P); or cons of instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 910 Doctoral Seminar in the Organization of Information
3 cr. Graduate.
In-depth and critical study of the historical, philosophical, theoretical, and methodological foundation of the organization of information.
Prerequisites: grad st (doctoral st); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 960 Doctoral Seminar in Information Policy
3 cr. Graduate.
Examination of the conceptual, institutional, and practical foundations of information policy, law, and ethics.
Prerequisites: grad st (doctoral st); or cons instr.
Last Taught: Spring 2019, Fall 2017, Spring 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 970 Doctoral Seminar in Information Retrieval
3 cr. Graduate.
Advanced research concepts, methods, and applications for information retrieval (IR) and its evaluation, and current topics of research interest to the IR community.
Prerequisites: grad st (doctoral st); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 990 Fieldwork in Library and Information Science Services
1-3 cr. Graduate.
Fieldwork experience of 50 to 150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P); cons instr.
Course Rules: May be repeated to max of 6 cr with cons adviser.
Current Offerings: https://catalog.uwm.edu/course-search/
INFOST 997 Preliminary Examinations
1-6 cr. Graduate.
Available for doctoral students taking preliminary exams. May be repeated twice to a max of 6 cr with cons of adviser.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 998 Doctoral Dissertation
1-3 cr. Graduate.
Doctoral dissertation research and advisement for information studies PhD candidates and PhD candidates with an emphasis in library and information science.
Prerequisites: doctoral candidacy & cons doctoral advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

INFOST 999 Independent Research
1-3 cr. Graduate.
Primary research under faculty guidance, on a special aspect of library and information services. Regular faculty consultation and written research report(s) required.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P), 591(P), or cons instr.
Course Rules: Carries 3 cr limit for MLIS; may be repeated to 6 cr max for advanced certificate students.
Current Offerings: https://catalog.uwm.edu/course-search/

International Studies (INTLST)

INTLST 193 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 250 Introduction to Study Abroad
2 cr. Undergraduate.
Discussion of study abroad programs by addressing objectives, cross-cultural communication, specific programs and pre-departure information.
Prerequisites: none.
Course Rules: No degree cr for students with cr in IntSt 350 'Studying in the World's Regions'(ER). Cr/no cr only; audit not permitted.
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in a UWM sponsored program before course level, content, and credits are determined and/or in a specially prepared program course. Section title(s) and credits announced whenever course is offered.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 450 Internship in International Studies
2-6 cr. Undergraduate.
Internship offering on the job experience to selected majors in international studies. Student enrolls for a specific number of credits.
Prerequisites: jr or sr st; gpa of 3.0; writ cons prog coord.
Course Rules: Retakable to 6 cr max. Cr/no cr only; audit not permitted.
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in a UWM sponsored program before course level, content, and credits are determined and/or in a specially prepared program course. Section title(s) and credits announced whenever course is offered.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 498 Applied Foreign Language
1 cr. Undergraduate.
Independent reading in a foreign language as companion to courses in international studies. To be arranged with International Studies coordinator.
Prerequisites: 2 yrs college-level work in a foreign language or equiv; cons IntLSt coord.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

INTLST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ITALIAN 104 Second-Semester Italian
4 cr. Undergraduate.
Continuation of Italian 103. Expands oral, written, and reading skills.
Prerequisites: Italian 103(P), 113(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of Italian 114.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 105 Third-Semester Italian
4 cr. Undergraduate.
Continuation of Italian 104. Expands oral, written and reading skills.
Prerequisites: Italian 104(P), 114(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of Italian 115.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 106 Fourth-Semester Italian
4 cr. Undergraduate.
Continuation of Italian 105. Expands oral, written, and reading skills.
Prerequisites: Italian 105(P), 115(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of Italian 116.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 107 Fifth-Semester Italian
4 cr. Undergraduate.
Continuation of Italian 106. Expands oral, written, and reading skills.
Prerequisites: Italian 106(P), 116(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of Italian 117.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 108 Sixth-Semester Italian
4 cr. Undergraduate.
Continuation of Italian 107. Expands oral, written, and reading skills.
Prerequisites: Italian 107(P), 117(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of Italian 118.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 109 Seventh-Semester Italian
4 cr. Undergraduate.
Continuation of Italian 108. Expands oral, written, and reading skills.
Prerequisites: Italian 108(P), 118(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of Italian 119.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 110 Italian for Travelers
2 cr. Undergraduate.
Basic conversational Italian for travelers. For students with no knowledge of Italian as well as for those with a basic foundation in the language.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 111 Intermediate Italian
4 cr. Undergraduate.
Continuation of Italian 103. Expands oral, written, and reading skills.
Prerequisites: Italian 103(P), 113(P), or cons instr.
Course Rules: may be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 112 Advanced Elementary Italian
4 cr. Undergraduate.
Continuation of Italian 103. Expands oral, written, and reading skills. Counts as repeat of Italian 114.
Prerequisites: Italian 103, or cons instr.
Course Rules: may be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 113 Elementary Italian
4 cr. Undergraduate.
Continuation of Italian 103. Expands oral, written, and reading skills. Counts as repeat of Italian 114.
Prerequisites: Italian 103, or cons instr.
Course Rules: may be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 114 Advanced Elementary Italian
4 cr. Undergraduate.
Continuation of Italian 103. Expands oral, written, and reading skills. Counts as repeat of Italian 114.
Prerequisites: Italian 103, or cons instr.
Course Rules: may be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ITALIAN 203 Third-Semester Italian
3 cr. Undergraduate.
Development of reading, writing, and oral skills; review and further study of grammar.
Prerequisites: Italian 104(P), 114(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 204 Fourth-Semester Italian
3 cr. Undergraduate.
Continuation of Italian 203.
Prerequisites: Italian 203(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Linguist 213, Polish 213, Russian 213, & Spanish 213.
Last Taught: Fall 2019, Fall 2012, Spring 2011, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 215 Italian Conversation
3 cr. Undergraduate.
Development of ability to speak and write Italian, with emphasis on everyday speech.
Prerequisites: Italian 104(P) or 114(P) or placement.
Course Rules: Should be taken conc with Italian 203 or 204. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 229 Italian Cinema
3 cr. Undergraduate.
Historical and stylistic study of film as an expression of the contemporary culture of Italy.
Prerequisites: none.
Last Taught: Fall 2009, Fall 2005, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 242 Topics in Italian American Studies
3 cr. Undergraduate.
Interdisciplinary study of aspects of Italian American ethnicity, history, and culture.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Last Taught: Fall 2018, Fall 2017, Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 243 Topics in Italian American Film
3 cr. Undergraduate.
Study of selected topics in Italian American film.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 245 Italian Fictions:
3 cr. Undergraduate.
Literary themes, types, or figures as they appear throughout Italian literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2016, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 256 Introduction to Italian Food Studies: A Cultural History
3 cr. Undergraduate.
Interdisciplinary study of Italian cooking and cuisine in fiction and non-fiction works from the Estruscan and Roman times to the present.
Prerequisites: none.
Course Rules: Taught in English.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 258 Contemporary Italian Society and Culture
3 cr. Undergraduate.
Interdisciplinary study, using audio-visual materials, of social, economic, and cultural features shaping Italy today.
Prerequisites: soph st.
Course Rules: In English; reading & papers in Italian required of majors (option A).
General Education Requirements: HU
Last Taught: Fall 2014, Fall 2012, Spring 2011, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 265 Italian Women's Studies:
3 cr. Undergraduate.
Past and present conceptions of women and womanhood in Italian literature, popular tradition, opera, film autobiography, and contemporary feminist writings.
Prerequisites: none.
Course Rules: Retakable w/chg in topic.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 277 Italian Discussion Section:
1-2 cr. Undergraduate.
Discussion in Italian, designed to broaden perspectives, improve language skills.
Prerequisites: Italian 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 289 Internship in Italian, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Italian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: Each cr earned for academic work based on 40 hrs internship. May be retaken to 6 cr max. Prereq Italian 104(P) or 114(P); 2.25 gpa; cons supervising faculty member.
Current Offerings: https://catalog.uwm.edu/course-search/
ITALIAN 296 UROP Apprenticeship
1-9 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One cr for 45 hrs of research.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP Apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2003. 
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 310 Italian Immersion
1-2 cr. Undergraduate.
Concentrated, structured practice of spoken Italian on varied contemporary topics; small-group setting with native speakers, simulating immersion experience. Improve communication skills, build vocabulary. May be offered in short-term sessions.
Prerequisites: Italian 203(P) or cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 311 Advanced Conversation and Composition: Contemporary Italian Usage
3 cr. Undergraduate.
Development of advanced speaking, writing, and reading skills. Films and readings emphasize twentieth century Italy. Focus varies each semester.
Prerequisites: Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 312 Contemporary Italian Language and Culture
3 cr. Undergraduate.
Contemporary culture through Italian readings, film, world wide web, and refinement of advanced conversation and composition skills. Themes vary each semester.
Prerequisites: Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 cr).
Course Rules: May be retaken to 6 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 313 Translation: Italian-English, English-Italian
3 cr. Undergraduate.
Contrastive study of literary and non-literary Italian and English prose styles and of the technical problems of translation.
Prerequisites: Italian 203(P) or cons instr.
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 321 Introduction to Italian Literature
3 cr. Undergraduate.
Varied approaches to reading works by major Italian authors. Development of critical skills in speaking and writing. Texts vary each semester.
Prerequisites: Italian 204(P) or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 322 Introduction to Italian Literature and Film
3 cr. Undergraduate.
Interdisciplinary approaches to major works of literature and film. Development of critical reading, speaking, and writing skills. Texts vary each semester.
Prerequisites: Italian 204(P) or cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 333 Dante's Divine Comedy in Translation
3 cr. Undergraduate/Graduate.
Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts.
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 333G Dante's Divine Comedy in Translation
3 cr. Undergraduate/Graduate.
Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts.
Prerequisites: jr st.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 335 Political Theory, Historiography, and Scientific Thought in Italy
3 cr. Undergraduate.
Nature of the universe and human history in works of Dante, Machiavelli, Galileo, Bruno, Campanella, Vico, Croce, and Gramsci. Reading and papers in Italian required of majors (option A).
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 342 Italian Migrations: A Socio-Cultural History
3 cr. Undergraduate.
Interdisciplinary examination of the social and cultural history of Italian migrations with specific focus on community formation in the United States, aspects of ethnic identity, and heritage.
Prerequisites: jr st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
ITALIAN 357 Topics in Italian Culture in Translation:
3 cr. Undergraduate/Graduate.
Examination of a specific topic or genre in works from one or more periods.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Spring 2019, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 383 Honors Seminar:
3 cr. Undergraduate.
A period, figure, theme, or genre. Specific aims and method of course vary according to the topic.
Prerequisites: soph st; Honors 200(P); or cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 391G Phonetics
2 cr. Undergraduate/Graduate.
Theory of Italian sounds; phonetic transcription; practice in pronunciation. Language lab may be required.
Prerequisites: jr st & Italian 311(P) or 312(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 391 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 413 Introduction to Italian to English Translation
3 cr. Undergraduate/Graduate.
Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation.
Prerequisites: two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 413G Introduction to Italian to English Translation
3 cr. Undergraduate/Graduate.
Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation.
Prerequisites: two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 414 Advanced Seminar in Italian to English Translation
3 cr. Undergraduate/Graduate.
Advanced level Italian to English translation overview; interactive learning of language usage through advanced exercises covering different translation topics; medicine, technology, business/advertising, and film/subtitling.
Prerequisites: jr st; Italian 413(P); or cons instr.
Last Taught: Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 414G Advanced Seminar in Italian to English Translation
3 cr. Undergraduate/Graduate.
Advanced level Italian to English translation overview; interactive learning of language usage through advanced exercises covering different translation topics; medicine, technology, business/advertising, and film/subtitling.
Prerequisites: jr st; Italian 413(P); or cons instr.
Last Taught: Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 456 Topics in Italian Food Studies:
3 cr. Undergraduate/Graduate.
Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts.
Prerequisites: jr st or cons instr.
Course Rules: Taught in English. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 456G Topics in Italian Food Studies:
3 cr. Undergraduate/Graduate.
Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts.
Prerequisites: jr st or cons instr.
Course Rules: Taught in English. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 457 Topics in Italian Literature and Culture in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 457G Topics in Italian Literature and Culture in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 460 The Italian Novel from Manzoni to the Present
3 cr. Undergraduate/Graduate.
Major trends and critical problems.
Prerequisites: jr st; Italian 321(P) & 322(P); & cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
ITALIAN 460G The Italian Novel from Manzoni to the Present
3 cr. Undergraduate/Graduate.
Major trends and critical problems.
Prerequisites: jr st, Italian 321(P) & 322(P), & cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 463 Italian Poetry from Romanticism to Hermeticism
3 cr. Undergraduate/Graduate.
Foscolo, Leopardi, Carducci, Pascoli, D'Annunzio, Marinetti, Campana, Ungaretti, Montale, Quasimodo.
Prerequisites: jr st & Italian 321(P) & 312(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 463G Italian Poetry from Romanticism to Hermeticism
3 cr. Undergraduate/Graduate.
Foscolo, Leopardi, Carducci, Pascoli, D'Annunzio, Marinetti, Campana, Ungaretti, Montale, Quasimodo.
Prerequisites: jr st & Italian 321(P) & 312(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 466 Italian Theatre from the Commedia Dell'Arte to Pirandello
3 cr. Undergraduate.
Textual approach and historical development of the genre from the seventeenth to the twentieth century.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 489 Internship in Italian, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Italian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; Italian 311(P) & 312(P).
Course Rules: Each cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 511 Literature of the Thirteenth and Fourteenth Centuries
3 cr. Undergraduate.
The first masterpieces of modern European literature from the Sicilian School of poetry to Petrarch, and from the early novellas to Boccaccio's Decameron.
Prerequisites: jr st, Italian 311(P) & 312(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 552 The Renaissance:
3 cr. Undergraduate/Graduate.
One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation.
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 552G The Renaissance:
3 cr. Undergraduate/Graduate.
One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation.
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 556 A Literary Period:
3 cr. Undergraduate.
Cross-disciplinary study of the main literary, intellectual, and cultural aspects of a specific period.
Prerequisites: jr st; Italian 311(P) & 312(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 570 Outline of Italian Literary History
3 cr. Undergraduate.
Historical overview of Italian literature covering the major periods and movements and stressing the relations between literature, philosophy, and aesthetics.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 597 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
ITALIAN 597G Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enable students studying language abroad to receive course credit at appropriate level.  
Prerequisites: jr st; acceptance in Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 629 Major Film Directors:  
3 cr. Undergraduate.  
Thematic, stylistic, and aesthetic study of outstanding figures of the Italian cinema.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max. In English.  
Last Taught: Spring 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 659 The Divine Comedy  
3 cr. Undergraduate/Graduate.  
Lectures on the life and times of Dante and reading of selected passages from his minor works.  
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 659G The Divine Comedy  
3 cr. Undergraduate/Graduate.  
Lectures on the life and times of Dante and reading of selected passages from his minor works.  
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 660 The Divine Comedy  
3 cr. Undergraduate/Graduate.  
Continuation of Italian 659.  
Prerequisites: jr st & Italian 659(P) or cons instr; or grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 660G The Divine Comedy  
3 cr. Undergraduate/Graduate.  
Continuation of Italian 659.  
Prerequisites: jr st & Italian 659(P) or cons instr; or grad st.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 670 Studies in Italian Literature:  
3 cr. Undergraduate/Graduate.  
Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts.  
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 670G Studies in Italian Literature:  
3 cr. Undergraduate/Graduate.  
Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts.  
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 671 Major Italian Authors:  
3 cr. Undergraduate.  
Specific subjects may be the works of one or several authors studied in the aesthetic and intellectual contexts of the period covered.  
Prerequisites: jr st, Italian 311(P) & 312(P).  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 675 Literary Theory and Critical Perspectives  
3 cr. Undergraduate.  
Major trends in Italian critical thought, with emphasis on contemporary literary theory and methods; stylistic, psychoanalytic, Marxist, and semiotic criticism.  
Prerequisites: jr st, Italian 311(P) & 312(P).  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 697 Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enable students studying language abroad to receive course credit at appropriate level.  
Prerequisites: jr st; acceptance in Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 697G Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enable students studying language abroad to receive course credit at appropriate level.  
Prerequisites: jr st; acceptance in Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 699 Advanced Independent Reading  
1-3 cr. Undergraduate.  
Advanced independent work under the supervision of an Italian faculty or instructional academic staff member. For additional information, consult Italian prog coord.  
Prerequisites: jr st; 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/

ITALIAN 729 Major Film Directors:  
3 cr. Graduate.  
Thematic, stylistic, and aesthetic study of outstanding figures of the Italian cinema.  
Prerequisites: grad st  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Spring 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/

Japanese (JAPAN)

JAPAN 100 Introduction to Japanese Literature  
3 cr. Undergraduate.  
Survey of Japanese literature from the Heian Period to the present day.  
Prerequisites: none.  
General Education Requirements: HU  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/
JAPAN 101 First Semester Japanese
5 cr. Undergraduate.
Beginning Japanese for students with no previous knowledge of the language.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 102 Second Semester Japanese
5 cr. Undergraduate.
Continuation of Japan 101.
Prerequisites: grade of C- or better in Japan 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 110 Japanese Popular Culture
3 cr. Undergraduate.
Elements of popular culture that have come to define modern-day Japan. In English.
Prerequisites: none.
Last Taught: Fall 2014, Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 192 First-Year Seminar
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 197 Study Abroad
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 200 Japanese Culture and Its Effect on Language
3 cr. Undergraduate.
Through various forms of media, examination of different aspects of Japanese culture and how it impacts language.
Prerequisites: none.
Course Rules: No cr for students w/cr in Linguis 200 with similar title.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 201 Third-Semester Japanese
5 cr. Undergraduate.
Continuation of Japan 102, with some emphasis on the practice of Japanese writing.
Prerequisites: grade of C- or better in Japan 102(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 202 Fourth-Semester Japanese
5 cr. Undergraduate.
Continuation of Japan 201, with some emphasis on the practice of Japanese writing.
Prerequisites: grade of C- or better in Japan 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 220 Introduction to Japanese Food Studies
3 cr. Undergraduate.
Cultural, historical, geographic, and sociological aspects of Japanese food culture as related to everyday Japanese culinary practices.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 221 Japanese Film: Themes and Methods
3 cr. Undergraduate.
Major films representing milestones in Japanese film history, from the 1930s to the turn of the twenty-first century.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 277 Japanese Discussion Section
1-2 cr. Undergraduate.
Discussion in Japanese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc.).
Prerequisites: Japan 202(Linguis 242)(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 279 Internship in Japanese, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 289 Internship in Japanese, Lower Division
1-6 cr. Undergraduate.
Continuation of Japan 201, with some emphasis on the practice of Japanese writing.
Prerequisites: grade of C- or better in Japan 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 296 UROP Apprenticeship
1-12 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/
JAPAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 301 Fifth Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 202.
Prerequisites: grade of C- or better in Japan 202(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 302 Sixth Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 301.
Prerequisites: grade of C- or better in Japan 301(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 310 Enhanced Knowledge & Skills for the Japanese Language Proficiency Test
3 cr. Undergraduate.
Preparation for levels N2 and N3 of the Japanese Language Proficiency Exam.
Prerequisites: May be retaken to 12 credits max. Prereq; Japan 202(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 312 Japanese Conversation II
3 cr. Undergraduate.
Training in advanced Japanese conversation skills for a wide variety of social settings.
Prerequisites: JAPAN 201(P).
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 321 Analyzing Hollywood-Japan Film Remakes
3 cr. Undergraduate.
Prerequisites: jr st.
Course Rules: In English. Counts as a repeat of Japan 499 w/same topic.
Last Taught: Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 330 Japanese Language and Culture
3 cr. Undergraduate.
Japanese expression and culture; influence of Japanese history, customs, and geographic features on the Japanese language.
Prerequisites: Prereq; Japan 202 (Linguis 242)(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 331 Reading Japanese Short Stories
3 cr. Undergraduate.
Introduction to Japanese short stories to improve reading skills, vocabulary, and understanding of Japanese culture.
Prerequisites: Japan 202(P).
Course Rules: Generates L&S credits for demonstrated equivalent preparation (14 retro crs).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 332 Extensive Reading in Japanese
1 cr. Undergraduate.
Reading practice utilizing easy readers, children's books, manga, and novels. Counts as repeat of Japan 299 w/ similar topic. May be retaken w/chg in topic to 3 cr max.
Prerequisites: jr st, Japan 101(P).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 345 Japanese News Media
3 cr. Undergraduate.
Training in reading and consuming Japanese news media in a variety of formats.
Prerequisites: JAPAN 301(C) or consent of instructor.
Course Rules: Retakeable with change in topic to 9 credits max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 351 Japanese Performance Traditions
3 cr. Undergraduate.
Japanese performance of drama and comedy from noh and kabuki to modern performance.
Prerequisites: jr st; satisfaction of OWC-A GER.
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 352 Japanese Performance Traditions: Readings
1 cr. Undergraduate.
Readings in Japanese performance texts from medieval noh scripts to modern Japanese theater.
Prerequisites: jr st or cons instr; completion of OWC-A GER; Japan 351(C)
Current Offerings: https://catalog.uwm.edu/course-search/
JAPAN 355 Seminar in Japanese Literature and Culture:
3 cr. Undergraduate.
Readings and discussion in English on selected topics in Japanese literature and culture.
Prerequisites: jr st; completion of Oral and Written Communication (OWC) Competency Part A.
Course Rules: May be retaken to a max of 9 crs.
General Education Requirements: OWCB
Last Taught: Spring 2020, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 361 Translating Japanese Media
3 cr. Undergraduate.
Development of the vocabulary, grammar knowledge, translating skills, and cultural sensitivities necessary to produce viable translations.
Prerequisites: Japan 202(P).
Course Rules: Generates L&S credits for demonstrated equivalent preparation (14 retro crs).
Last Taught: Spring 2020, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 370 Fun Kanji
2 cr. Undergraduate.
Extensive practice in use of kanji, in order to enhance students’ ability to read Japanese materials fluently.
Prerequisites: jr st and Japan 101(P).
Course Rules: Counts as repeat of Japan 299 w/ similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially prepared program coursework.
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 401 Seventh Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 302.
Prerequisites: grade of C- or better in Japan 302(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro crs).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 402 Eighth Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 401.
Prerequisites: grade of C- or better in Japan 401(P). Generates L&S credits for demonstrated equivalent preparation (16 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 416 Introduction to Translation: Japanese to English
3 cr. Undergraduate.
Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts.
Prerequisites: jr st; grade of B or better in 300-level or above Japanese language course.
Last Taught: Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 419 Business Japanese I
3 cr. Undergraduate.
Language and cultural studies that develop the practical knowledge and skills needed for doing business with Japan.
Prerequisites: Japan 302(P).
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 489 Internship in Japanese, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016, Spring 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 500 Research and Research Writing in Japanese
3 cr. Undergraduate.
Capstone course for Japanese major. Students conduct research in Japanese and produce a thesis and presentation based on that research.
Prerequisites: grade of B- or better in Japan 401(P); pass level N3 of Japanese Language Proficiency Test; or cons instr.
Course Rules: Not open to students who have completed Japanese capstone req under FLL 499 or Japan 699.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 516 Seminar in Advanced Translation: Japanese to English
3 cr. Undergraduate.
Translation of ideas and conceptual knowledge in subject areas that include economics, law, society, culture, and history.
Prerequisites: Japan 416(P).
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
JAPAN 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAPAN 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Japanese faculty or academic staff member.
Prerequisites: jr st, 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2017, Summer 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 101 Jewish Culture in America: History, Literature, Film
3 cr. Undergraduate.
Cross-disciplinary study of modern Jewish culture in America, with particular attention given to Jewish-American literature, film, and history of the nineteenth and twentieth centuries.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 131 Introduction to Biblical Studies
3 cr. Undergraduate.
Introduction to biblical and post-biblical literature; languages and scripts of the Bible; cultural and historical background of the Bible; ancient and modern bible translations.
Prerequisites: none.
Course Rules: Previously HEBR ST 131.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Timetable each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 193 First-Year Seminar:
3 cr. Undergraduate.
Specific social science topics are announced in the Timetable each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 230 Bible Stories
3 cr. Undergraduate.
Introduction to the central stories of the Hebrew Bible with particular attention to their literary, aesthetic, social and moral meanings.
Prerequisites: none.
Course Rules: Previously HEBR ST 230.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
JEWISH 231 Introduction to the Old Testament/Hebrew Bible  
3 cr. Undergraduate.  
The books of the Jewish Scriptures/Christian Old Testament; brief survey  
of history of ancient Israel. Emphasis on reading biblical texts as ancient  
religious literature.  
Prerequisites: none.  
Course Rules: Previously HEBR ST 231.  
General Education Requirements: HU  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 232 Survey of the Literature of the Post-Biblical Period  
3 cr. Undergraduate.  
Readings (in English) of the Apocrypha & Pseudepigrapha, Philo and  
Josephus, and the Rabbinic literature of the Talmud and Midrash  
covering the period to 640 C.E.  
Prerequisites: none; one course in 100-level lit-in-trans or 200-level  
English lit advisable.  
Course Rules: Previously HEBR ST 232.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 234 Survey of Modern Hebrew and Jewish Literature in  
Translation  
3 cr. Undergraduate.  
Hebrew civilization in the modern period (1789 to present). Readings (in  
English) in modern Hebrew literature, history, and philosophy.  
Prerequisites: none. One course in 100-level lit-in-trans or 200-level  
English lit advisable.  
Course Rules: Previously HEBR ST 234.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 235 The Dead Sea Scrolls and the Bible  
3 cr. Undergraduate.  
Literature and theology of the 'Dead Sea Scrolls,' emphasizing their  
relationship to the Bible. Their importance for studying the history of early  
Judaism and Christianity.  
Prerequisites: none.  
Course Rules: Previously HEBR ST 235.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 247 Topics in Jewish Literature, Art, and Culture:  
3 cr. Undergraduate.  
Introduction to various aspects of modern Jewish literature, art, and  
culture; possible topics include Jewish music, Jewish American literature,  
Holocaust literature, and Jewish art.  
Prerequisites: none.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
General Education Requirements: HU  
Last Taught: Spring 2014, Fall 2012, Fall 2011, Spring 2011.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 261 Representing the Holocaust in Words and Images  
3 cr. Undergraduate.  
Holocaust literature and film; issues of representation and memory. Texts  
include memoirs, graphic novels, fiction, and documentaries.  
Prerequisites: none.  
Course Rules: No credit for students with credit in HEBR ST 238 with  
same topic. HEBR ST 261/JEWISH 261 were previously jointly offered.  
They count as repeats of one another.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 282 Jewish Identity in Contemporary America  
3 cr. Undergraduate.  
What it means to be Jewish in America; how individuals and communities  
shape identities; how minority culture is shaped by American values.  
Prerequisites: none.  
Course Rules: No credit for students with credit in HEBR ST 254 with  
same topic. HEBR ST 282 and JEWISH 282 were previously jointly  
offered, and count as repeats of one another.  
General Education Requirements: HU  
Last Taught: Fall 2010, Spring 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 289 Internship in Jewish Studies, Lower Division  
1-6 cr. Undergraduate.  
Application of basic principles of Jewish studies in business,  
organizational, educational, political, or other appropriate setting.  
Prerequisites: intro course in Jewish; 2.50 gpa; cons supervising faculty  
member.  
Course Rules: One cr earned for academic work based on 40 hrs in  
internship. May be retaken to 6 cr max.  
Last Taught: Fall 2011, Fall 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course  
work level, content, and credits are determined and/or in specially  
prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Spring 2019, Spring 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JEWISH 299 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period.  
Requires only dept & assoc dean approval. In exceptional circumstances,  
can be offered in one add’l sem.  
Prerequisites: none; add’l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/
JEWISH 321 The Holocaust and the Politics of Memory
3 cr. Undergraduate.
Exploration of the political, sociological, and cultural motivations behind public debates about the Holocaust in post-WWII Germany, Israel, and France.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 328 The Arab-Israeli Conflict
3 cr. Undergraduate/Graduate.
Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.
Prerequisites: jr st.
Course Rules: Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 328G The Arab-Israeli Conflict
3 cr. Undergraduate/Graduate.
Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.
Prerequisites: jr st.
Course Rules: Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 331 Topics in Biblical Literature:
3 cr. Undergraduate.
Analysis of genres or issues in biblical literature; topics may include wisdom literature, prophetic writings, Bible as literature, God in the Old Testament.
Prerequisites: jr st.
Course Rules: May be retaken with change in topic to 9 cr max. Previously HEBR ST 331.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 332 Women in the Bible
3 cr. Undergraduate.
Analyzes stories about women in the Old Testament from a literary, cultural and historical perspective; includes how these texts have influenced modern views of women.
Prerequisites: jr st.
Course Rules: Previously HEBR ST 332.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 350 Global Jewish Film and Television:
3 cr. Undergraduate.
Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.
Prerequisites: jr st.
Course Rules: FILMSTD 350 & JEWISH 350 are jointly offered; with the same subtitle, they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2011, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 358 The Jews of Modern Europe: History and Culture
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 358G The Jews of Modern Europe: History and Culture
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 368 Jewish and Christian Responses to the Holocaust
3 cr. Undergraduate.
Jewish and Christian answers to theological questions raised by the Holocaust, such as ‘Where was God?’ Focus on interfaith dialogue and understanding.
Prerequisites: jr st.
Course Rules: No credit for students with credit in HEBR ST 254 with same topic. HEBR ST 368 and JEWISH 368 were previously jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 379 Introduction to Jewish History
3 cr. Undergraduate.
Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
JEWISH 411 Old Testament Texts:
3 cr. Undergraduate/Graduate.
Reading of Hebrew text through grammatical and critical analysis. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; HEBR ST 106(P) or HEBR ST 202(P).
Course Rules: Previously HEBR ST 411. Retakable with change in topic 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 421 Introduction to Yiddish Literature:
3 cr. Undergraduate.
Development of Yiddish literature from medieval times to the twentieth century; close readings of works of major writers.
Prerequisites: jr st.
Course Rules: In English. May be retaken w/chg in topic 9 cr max.
Last Taught: Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 449 Modern Jewish Thought
3 cr. Undergraduate.
Historical development of Jewish philosophical thought since the nineteenth century; close reading of influential thinkers of modern and contemporary times.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in Hebr St 499 w/same title.
Last Taught: Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 489 Internship in Jewish Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above Jewish course; 2.50 GPA; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2013, Summer 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 500 Seminar in Jewish Studies:
3 cr. Undergraduate.
Seminar on a particular topic in Jewish Studies.
Prerequisites: jr st; a Hebr St or Jewish course; or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Jewish studies faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JEWISH 799 Independent Study
1-3 cr. Graduate.
Independent reading or project; topic selected in consultation with supervising professor.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

Journalism, Advertising, and Media Studies (JAMS)

JAMS 101 Introduction to Mass Media
3 cr. Undergraduate.
Overview of mass media from the printing press to the internet. Focus on media technologies, industries, content, and critical approaches.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 111 Gender and the Media
3 cr. Undergraduate.
How gender representations in popular media inform and construct our understandings of the world; gender in popular culture, including new media; critical analysis of representations.
Prerequisites: none.
Course Rules: No cr for students w/cr in JAMS 460.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 112 Global Media
3 cr. Undergraduate.
How media function in other countries and cultures from a perspective informed by Western and non-Western conceptual, philosophical, and cultural frameworks.
Prerequisites: none.
Course Rules: No cr for students w/cr in JAMS 620.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 113 Internet Culture
3 cr. Undergraduate.
Social, cultural, and historical dimensions of the Internet.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 114 Media and Popular Culture
3 cr. Undergraduate.
Critical perspectives on media and popular culture (including television, comic books, new media); how media and popular culture structure everyday life.
Prerequisites: none.

JAMS 115 Introduction to Media and Politics
3 cr. Undergraduate.
Preparation to be informed, critical consumers of political messages in wide range of mass media; applying research on political content and effects of mass media.
Prerequisites: none.
Course Rules: No cr for students w/cr in JAMS 615.
General Education Requirements: SS
Last Taught: Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 116 Journalism, Documentary, and Democracy
3 cr. Undergraduate.
The role of journalism and documentary in democracy examined through a variety of media products.
Prerequisites: none.
Last Taught: Fall 2016, Summer 2015, Summer 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 142 Television and Radio in American Society
3 cr. Undergraduate.
Current issues in broadcasting in the United States, including ratings, programming, audience research, and effects.
Prerequisites: none.
Course Rules: Not open for cr to students who have cr in JAMS 250.
General Education Requirements: SS
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 192 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 193 First-Year Seminar
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 201 Media Writing
3 cr. Undergraduate.
Techniques and strategies for writing that can communicate effectively with media audiences; emphasizes innovation and creativity within the constraints of good grammar and style.
Prerequisites: satisfaction of OWC-A GER
General Education Requirements: OWC
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 204 News Writing and Technology
3 cr. Undergraduate.
Writing, storytelling, digital editing and production for journalism.
Prerequisites: C or better in JAMS 101(P) and JAMS 201(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 207 Introduction to Advertising and Public Relations
3 cr. Undergraduate.
A practical approach to developing, implementing, and evaluating advertising and public relations strategies.
Prerequisites: C or better in JAMS 101(P) and JAMS 201(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 210 Jewish and Ethnic Narratives and Identities in Media
3 cr. Undergraduate.
Jewish and ethnic media; comparative analysis of narrative and identity constructions in photography, television, film, and convergent media.
Prerequisites: none.
Course Rules: Jewish 210 & JAMS 210 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 212 Introduction to Corporate Communication
3 cr. Undergraduate.
The profession of corporate communication; focus on the variety of mass communication strategies in the field.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 214 Advertising in American Society
3 cr. Undergraduate.
A critical survey of advertising's development and current practices as well as its impact on knowledge, attitudes, and behaviors.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 230 Copy Editing
3 cr. Undergraduate.
Training in print editing; introduction to basic layout principles.
Prerequisites: grade of B or better in JAMS 201(P).
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 231 Publication Design
3 cr. Undergraduate.
Principles of print layout and design.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 232 Photojournalism
3 cr. Undergraduate.
The history of photography and the practice of photojournalism, including aesthetic, conceptual, and technical developments. Digital production and distribution.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 260 Contemporary Non-Fiction Media
3 cr. Undergraduate.
Overview of new and traditional forms of non-fiction media such as documentaries, web sites, and reality television.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 262 Principles of Media Studies
3 cr. Undergraduate.
Central issues and concerns in the field of media studies. Cultural study of media industries and production practices. Analysis of media texts and audiences.
Prerequisites: C or better in JAMS 101(P) and JAMS 201(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 280 Selected Topics in Mass Communication:
3 cr. Undergraduate.
Selected topics not addressed in regularly-approved courses.
Prerequisites: soph st; add'l prereqs, if any, announced in the Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 289 Internship in Journalism and Media Communication, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: GPA of at least 2.5; a grade of C or better in JAMS 204(P), JAMS 207(P), or JAMS 262(P); declared JAMS major or minor; and consent of the department internship committee.
Course Rules: Students earn one academic credit per 40 hours of internship placement. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max.
Last Taught: Summer 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 302 Video Storytelling
3 cr. Undergraduate.
Introduction to video producing, recording, editing and writing for journalism, advertising, public relations and social media.
Prerequisites: grade of C or better in JAMS 201(P).
Course Rules: Counts as a repeat of JAMS 380 with the same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 304 News Literacy
3 cr. Undergraduate.
Assessing the quality and trustworthiness of news sources and analyzing coverage of current events using investigative tools, fact checking and critical thinking skills.
Prerequisites: none.
Course Rules: Not open for credit to students with credit in JAMS 356.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 306 Feature and Magazine Article Writing:
3 cr. Undergraduate.
Using interviews, analysis and/or observation to produce feature and profile stories.
Prerequisites: jr st, declared JAMS major/minor or English major.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 307 Persuasive Media Writing and Production:
3 cr. Undergraduate.
Writing, design, and production of persuasive media elements through individual and group work and skills-based activities.
Prerequisites: declared JAMS major/minor, grade of C or better in JAMS 207(P).
Course Rules: May not be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 320 Integrated Reporting
3 cr. Undergraduate.
Reporting and writing in an integrated newsroom setting.
Prerequisites: declared JAMS major or minor, grade of C or better in JAMS 204(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 325 Audio Storytelling
3 cr. Undergraduate.
Analysis of audio storytelling techniques and impact; audio storytelling production.
Prerequisites: jr st.
Course Rules: Counts as repeat of JAMS 380 w/similar topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 332 Introduction to Digital Documentary
3 cr. Undergraduate.
Analyzing, filming and editing a quality documentary for client use, broadcast television, or film festival entry.
Prerequisites: junior standing and a grade of C or better in JAMS 302(P).
Last Taught: Spring 2020, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 336 Media Graphics
3 cr. Undergraduate.
Production and analysis of mass media graphics, photographs, and illustrations.
Prerequisites: jr st, JAMS major/minor or Digital Arts and Culture (DAC) status; grade of C or better in JAMS 113(P) or grade of C or better in ART 118(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 342 Television News Reporting
3 cr. Undergraduate.
Reporting, writing, and editing television news, including field camera operation and video editing.
Prerequisites: declared JAMS major or minor, grade of C or better in JAMS 302(P).
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 350 Special Topics in Journalism, Advertising, and Media Studies:
3 cr. Undergraduate.
Special topics not addressed in regularly-approved courses.
Prerequisites: jr st; any add'l prereqs announced in Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 399 On-Campus Internship
3 cr. Undergraduate.
Professional internship in journalism, public relations, advertising, or other media.
Prerequisites: GPA of 2.5 or higher; a grade of C or better in JAMS 204(P), JAMS 207(P), or JAMS 262(P); declared JAMS major or minor; and consent of department internship committee.
Course Rules: Students earn one academic credit per 40 hours of internship placement. May be retaken to 6 cr max in combination with JAMS 600.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 407 Persuasive Media Strategies and Tactics
3 cr. Undergraduate.
Exploration and analysis of advertising media buying and planning, and PR media relations.
Prerequisites: jr st; grade of C or better in JAMS 207(P); or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 450 Race and Ethnicity in the Media
3 cr. Undergraduate.
How popular media representations of race inform understandings of past and contemporary society; race in popular culture, especially new media; critical analysis of media content and forms.
Prerequisites: jr st.
Course Rules: Counts as repeat of JMC 660 w/similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 460 History of Mass Media
3 cr. Undergraduate.
Evolution of mass media in the United States; how technological, cultural, political and economic changes have affected the media.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 461 Media Ethics
3 cr. Undergraduate.
Practical application of ethical principles to controversies in print and broadcast journalism, advertising, public relations, and new technologies of mass communication.
Prerequisites: jr st.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 466 Health and Media
3 cr. Undergraduate.
Examination of media representations of health, illness, health care; theories regarding impacts of media consumption on health beliefs and behaviors; use of media in health promotion.
Prerequisites: sophomore standing.
Course Rules: No degree credit is allowed for students with credit in JAMS 380 with similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 481 Topics in Social Media:
3 cr. Undergraduate.
Topics examining social media's use, influence and/or development.
Prerequisites: May be retaken w/chg in topic to 6 cr max. Prereq. jr st. Not open for cr to students w/ cr in JAMS 380 w/ similar topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 489 Internship in Journalism and Media Communication, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: GPA of 2.5 or higher; a grade of C or better in JAMS 307(P), JAMS 320(P), or JAMS 562(P); declared JAMS major or minor; and consent of department internship committee.
Course Rules: Students earn one academic credit per 40 hours of internship placement. A three-credit internship, therefore, requires the student to complete at least 120 hours. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 491 Honors Seminar:
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Spring 2011, Fall 2007, Fall 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 500 Advanced Integrated Reporting
3 cr. Undergraduate.
Advanced reporting and writing in an integrated newsroom setting.
Prerequisites: junior standing; declared JAMS major or minor; a grade of C or better in JAMS 320(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 502 Specialized Reporting:
3 cr. Undergraduate.
Overview of the problems and challenges of specialized reporting in an area such as social science, science, the humanities and the arts.
Prerequisites: jr st; declared JAMS major or minor; grade of C or better in JAMS 320(P).
Course Rules: May be retaken w/chg in topic to 9 cr max. Not open for cr to student w/cr in JAMS 602 w/similar topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 503 Environment and the Media
3 cr. Undergraduate.
Analysis of environmental reporting in a variety of media; confluence of science, health, business, and political influences in environmental coverage.
Prerequisites: jr st
Course Rules: Counts as a repeat of JAMS 660 with similar title.
Last Taught: Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 504 Critical and Opinion Writing  
3 cr. Undergraduate.  
Opinion, column and review writing for multiple platforms.  
Prerequisites: junior standing.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 505 Research for Advertising and Public Relations  
3 cr. Undergraduate/Graduate.  
Examination of the research process through hands-on projects; how to formulate research questions, design questionnaires, collect data, and report and interpret answers to these questions.  
Prerequisites: jr st; grade of C or better in JAMS 207(P); or cons instr.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 505G Research for Advertising and Public Relations  
3 cr. Undergraduate/Graduate.  
Examination of the research process through hands-on projects; how to formulate research questions, design questionnaires, collect data, and report and interpret answers to these questions.  
Prerequisites: jr st; grade of C or better in JAMS 207(P); or cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 524 Advertising and Public Relations Campaigns  
3 cr. Undergraduate.  
Advanced course in advertising and public relations; emphasis on applying integrated practices and principles.  
Prerequisites: jr st; grade of C or better in JAMS 222(P), 224(P), or 307(P); declared JAMS major or minor.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 559 Freedom of Expression in the Digital Age  
3 cr. Undergraduate/Graduate.  
First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication.  
Prerequisites: jr st.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 559G Freedom of Expression in the Digital Age  
3 cr. Undergraduate/Graduate.  
First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication.  
Prerequisites: jr st.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 562 Media Studies and Culture  
3 cr. Undergraduate/Graduate.  
Mass media and the production of culture; media industries, content, and audiences; focus on contemporary issues.  
Prerequisites: jr st; grade of C or better in JAMS 262(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 562G Media Studies and Culture  
3 cr. Undergraduate/Graduate.  
Mass media and the production of culture; media industries, content, and audiences; focus on contemporary issues.  
Prerequisites: jr st; grade of C or better in JAMS 262(P).  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 600 Off-Campus Internship  
3 cr. Undergraduate.  
Professional internship in journalism, public relations, advertising, or other media.  
Prerequisites: GPA of 2.5 or greater; a grade of C or better in JAMS 307(P), JAMS 320(P), or JAMS 562(P); declared JAMS major or minor; and consent of department internship committee.  
Course Rules: Students earn one academic credit per 40 hours of internship placement. May be retaken to 6 cr max in combination with JAMS 399.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 600G Off-Campus Internship  
3 cr. Undergraduate.  
Professional internship in journalism, public relations, advertising, or other media.  
Prerequisites: GPA of 2.5 or greater; a grade of C or better in JAMS 307(P), JAMS 320(P), or JAMS 562(P); declared JAMS major or minor; and consent of department internship committee.  
Course Rules: Students earn one academic credit per 40 hours of internship placement. May be retaken to 6 cr max in combination with JAMS 399.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 614 Seminar in Media and Public Opinion  
3 cr. Undergraduate/Graduate.  
Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.  
Prerequisites: jr st.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 614G Seminar in Media and Public Opinion  
3 cr. Undergraduate/Graduate.  
Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.  
Prerequisites: jr st.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

JAMS 615 Seminar in Media and Politics  
3 cr. Undergraduate/Graduate.  
How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.  
Prerequisites: jr st.  
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 615G Seminar in Media and Politics
3 cr. Undergraduate/Graduate.
How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 620 Seminar in Global Media
3 cr. Undergraduate/Graduate.
Economic, regulatory, and cultural characteristics of national and global mass media.
Prerequisites: jr st.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 620G Seminar in Global Media
3 cr. Undergraduate/Graduate.
Economic, regulatory, and cultural characteristics of national and global mass media.
Prerequisites: jr st.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 659 Seminar in Comparative Media Law
3 cr. Undergraduate/Graduate.
Critical thinking and research about different countries' approaches to freedom of expression and legal issues relating to journalism, advertising, and other aspects of the media.
Prerequisites: jr st, JAMS 559 or cons instr.
Last Taught: Fall 2011, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 659G Seminar in Comparative Media Law
3 cr. Undergraduate/Graduate.
Critical thinking and research about different countries' approaches to freedom of expression and legal issues relating to journalism, advertising, and other aspects of the media.
Prerequisites: jr st, JAMS 559 or cons instr.
Last Taught: Fall 2011, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 660 Seminar in Contemporary Issues in Media Studies:
3 cr. Undergraduate/Graduate.
Research-oriented approaches to theoretical and social issues in mass communication.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 661 Seminar in Media Communication and Society:
3 cr. Undergraduate/Graduate.
Topics related to the mass media; the research process; development of a seminar paper based on original research.
Prerequisites: jr st; add'l prereqs, if any, announced in the Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 661G Seminar in Media Communication and Society:
3 cr. Undergraduate/Graduate.
Topics related to the mass media; the research process; development of a seminar paper based on original research.
Prerequisites: jr st; add'l prereqs, if any, announced in the Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 699 Advanced Independent Study
1-6 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: jr st, 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 700 Approaches to Media Studies
3 cr. Graduate.
Review and analysis of research in media studies; preparation for scholarly writing.
Prerequisites: admis to MA prog in Media Studies or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 701 Media Studies Research Design
3 cr. Graduate.
Qualitative and quantitative research methods in media studies; preparation of a research proposal.
Prerequisites: admis to MA prog in Media Studies or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 810 Media Effects
3 cr. Graduate.
Cross-disciplinary examination of theoretical approaches, research methods, and findings in the study of mass media effects on beliefs, opinions, behavior, and policy; design and execution of a research project.
Prerequisites: grad st.
Last Taught: Spring 2019, Fall 2014, Spring 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 815 Media and Cultural Studies
3 cr. Graduate.
Cultural approaches to the study of media; design and execution of a research project.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
JAMS 820 Persuasion in Media
3 cr. Graduate.
Examination of theoretical approaches, research methods, and findings in the study of persuasive media; design and execution of a research project.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 830 Topics in Media History:
3 cr. Graduate.
Historical approaches to the study of media; design and execution of a research project.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 835 Politics and the Media
3 cr. Graduate.
In-depth examination of the relationships between the media and politics in the United States, with a special focus on political campaigns.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 840 Topics in Media Law and Ethics:
3 cr. Graduate.
In-depth study and discussion of law and ethics as they relate to the mass media; development of original research for publication in scholarly journals.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2015, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 845 Topics in Gender, Sexuality, and Media:
3 cr. Graduate.
Analysis of gender, sexuality, and other aspects of identity in and related to media.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 850 Global Media and Local Cultures
3 cr. Graduate.
Seminar covering major theories and critiques of globalization, with a particular emphasis on the study of media and culture.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 855 Topics in New Media:
3 cr. Graduate.
History, theory, and/or criticism of new media.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2015, Spring 2014, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 860 Seminar in Media Studies:
3 cr. Graduate.
In-depth study and discussion of a current topic in media studies. Specific topics announced in the Schedule of Classes.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum cr load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 990 Research and Thesis
1-6 cr. Graduate.
Production of a thesis under the supervision of the student's major professor with the consultation of the degree committee.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 991 Professional Project
1-6 cr. Graduate.
Preparation and execution of a project which applies mass communication research and theory in a professional setting.
Prerequisites: grad st; cons instr.
Course Rules: Students enroll under major prof with consultation of degree committee.
Current Offerings: https://catalog.uwm.edu/course-search/

JAMS 999 Graduate Independent Study
1-3 cr. Graduate.
Supervised research of a particular topic area either not covered by other courses or at a level of sophistication beyond that of courses which cover the topic.
Prerequisites: grad st; 3.00 grad gpa; writ cons grad dir.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Kinesiology (KIN)

KIN 190 Topics Course in Physical Activity:
1-3 cr. Undergraduate.
Introductory level topics of current interest in health and physical activity. Special course fees may be required depending on topic.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 & Kin 290 with same topic. May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 200 Introduction to Kinesiology
3 cr. Undergraduate.
Introduction to the discipline of kinesiology and its subdisciplines of exercise physiology, motor behavior, biomechanics, and psychology and sociology of physical activity.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 201 Field Experience in Kinesiology
1 cr. Undergraduate.
Lecture/discussion/site visitation exploring the broad field of Kinesiology and typical service delivery systems, e.g., campus, community, commercial, industrial and clinical.
Prerequisites: Kin 202(C).
Course Rules: Counts as repeat of Kin 210.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 202 Field Work in Kinesiology
1 cr. Undergraduate.
Practical, supervised, service-learning in the field of kinesiology.
Prerequisites: Kin 201(C).
Course Rules: Counts as repeat of Kin 210.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 211 First Aid and Cardiopulmonary Resuscitation
1 cr. Undergraduate.
CPR for adults, children, and infants; AED; and First Aid.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 212 Fieldwork in Athletic Training
1 cr. Undergraduate.
On-site observation of the athletic training profession. Students will rotate through different on-campus sites.
Prerequisites: Kin 310(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 216 Organization and Administration of Athletic Training
3 cr. Undergraduate.
Delivery of athletic training services in various settings. Topics include program, personnel, information management, budgeting, documentation, insurance, legal considerations and current topics.
Prerequisites: admitted to athletic training maj; Kin 316(P), Kin 410(C) & Kin 416(C); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 230 Health Aspects of Exercise and Nutrition
3 cr. Undergraduate.
Examines physical fitness and proper nutrition as lifestyle choices in maintaining optimal health and minimizing health risks.
Prerequisites: none.
Course Rules: Not open to students with credit in KIN 530, KIN 532, or PRPP 736.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 255 Women in Sport and Physical Activity
3 cr. Undergraduate.
Introduction theory and research on female participation in sport and physical activity.
Prerequisites: soph st or cons instr.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 270 Statistics in the Health Professions: Theory and Practice
3 cr. Undergraduate.
Overview of statistical theory and practical application for health professionals. Includes problem solving strategies, descriptive and inferential techniques, and critical evaluation of research design.
Prerequisites: Satisfaction of Quantitative Literacy Part A.
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 289 Seminar in Athletic Training
0 cr. Undergraduate.
Exposure to peer presentations, guest lectures on current topics, current literature updates/discussion, and program information updates.
Prerequisites: acceptance into Athletic Training prog.
Course Rules: Must be taken by student in the ATEP each sem of prog. Fee for 1 cr assessed.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 290 Special Topics in Human Movement Sciences:
1-3 cr. Undergraduate.
Topics of current interest in kinesiology, health, and fitness. Special course fees may be required depending on course.
Prerequisites: specified in semester Schedule whenever required for a topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 296 UROP Research Study:
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising faculty member. One credit for 45 hours research.
Prerequisites: Acceptance to UROP prior or conc reg in UROP sem; cons instr.
Course Rules: May be retaken to 9 cr max in any combination of UROP Research Study courses.
Last Taught: Spring 2019, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 298 Independent Projects  
1-3 cr. Undergraduate.  
Designed for individual and small group research projects under faculty supervision.  
Prerequisites: writ cons instr.  
Last Taught: Spring 2020, Fall 2016, Summer 2016, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 299 Independent Reading  
1-3 cr. Undergraduate.  
Designed for individual and small groups in special study. Meetings/  
Prerequisites: cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 300 Professional Preparation Seminar  
1 cr. Undergraduate.  
Seminar lecture/discussion to prepare students for internships and other  
Prerequisites: cons instr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 301 Field Experience in Kinesiology - I  
1 cr. Undergraduate.  
Science and methods of exercise instruction for leading groups.  
Prerequisites: admis to Kin major.  
Course Rules: Counts as repeat of Kin 290 w/same topic.  
Last Taught: Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 302 Field Experience in Kinesiology - II  
1 cr. Undergraduate.  
Science and methods of exercise instruction for coaching and training  
Prerequisites: admis to Kin major.  
Last Taught: Spring 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 303 Field Experience in Kinesiology - III  
1 cr. Undergraduate.  
Continued exposure to hands-on aspect of the field; prepare students for  
Prerequisites: Kin 302(P), & Kin 325(P), 336(C), 430(C) or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 310 Responding to Emergencies  
1 cr. Undergraduate.  
Focus on the development of skills necessary for professionals to act as  
Prerequisites: Kin 212(C).  
Course Rules: Credit/No Credit only.  
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 311 CPR/AED Recertification  
1 cr. Undergraduate.  
CPR/AED recertification and review of basic First Aid.  
Prerequisites: Kin 211 or CPR & standard first aid certification.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 312 Introduction to Prevention, Recognition, and Treatment of  
Athletic Injuries  
3 cr. Undergraduate.  
Introduction to athletic training principles and techniques necessary for  
Prerequisites: enrolled in ATEP Program, Kin 310(P); or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 314 Recognition and Evaluation of Injuries: Lower Extremity  
3 cr. Undergraduate.  
Techniques/knowledge necessary to perform examination, treatment,  
Prerequisites: admis to athletic training major; Kin 413(C), & 416(C); or  
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 315 Recognition and Evaluation of Injuries: Upper Extremity  
3 cr. Undergraduate.  
Techniques/knowledge necessary to perform examination, treatment,  
Prerequisites: admis to athletic training major; Kin 413(P), & 416(C); or  
Current Offerings: https://catalog.uwm.edu/course-search/  

KIN 316 Recognition and Evaluation of Athletic Injuries: Head, Neck, and  
Trunk  
3 cr. Undergraduate.  
Techniques/knowledge necessary to perform examination, treatment,  
Prerequisites: admis to athletic training major; Kin 315(P), 414(C) &  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 320 Biomechanics  
3 cr. Undergraduate.  
Application of physical laws and mechanical principles to human movement.  
**Prerequisites:** admis to Kin major; or admis to Kin minor and Bio Sci 202(P) & Physics 120(P) with a C or greater; or cons instr.  
**Course Rules:** Not open to students w/cr in Kin 520.  
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 325 Anatomical Kinesiology  
3 cr. Undergraduate.  
Anatomical analysis of the human body including joint actions, anatomical, muscular, and neuromuscular control aspects necessary for movement.  
**Prerequisites:** admis to Kin major, Ath Trng major or OT prog. Bio Sci 202(P) & 203(C) or cons instr.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Fall 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 330 Exercise Physiology  
4 cr. Undergraduate.  
Study of the physiological responses to exercise and the adaptations to physical training.  
**Prerequisites:** admis to Kin major; or admis to Kin minor & Bio Sci 203(P) & Chem 100(P), 102(P), or 104(P) with grade of C or greater; or cons instr.  
**Course Rules:** Not open to students w/cr in Kin 530, 532, or 536.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2018, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 336 Principles of Strength and Conditioning  
3 cr. Undergraduate.  
Basic principles necessary to understand the effects of exercise and conditioning on human physiology. Exercise techniques and measures used to assess performance outcome.  
**Prerequisites:** Kin 325(P), 330(P); or cons instr.  
**Course Rules:** Counts as repeat of Kin 335 & 337.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 350 Psychological Aspects of Sport and Exercise  
3 cr. Undergraduate.  
Examines relationships between psychological function and participation in sport and exercise. Topics include motivation, stress, group dynamics, and performance enhancement.  
**Prerequisites:** Psych 101(P); satisfaction of GER Quant Lit Part B or cons instr.  
**Course Rules:** Not open to students with credit in Kin 550, 551, or 552.  
**General Education Requirements:** SS  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 351 Sociological Aspects of Health and Human Movement  
3 cr. Undergraduate.  
Introduction to sociology of physical activity. Examination of diversity and social inequality as they relate to health and physical activity.  
**Prerequisites:** Sociol 101(P); satisfaction of GER Quant Lit Part B or cons instr.  
**Course Rules:** Not open to students with credit in Kin 570.  
**General Education Requirements:** SS  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 360 Motor Development Across the Lifespan  
3 cr. Undergraduate.  
Introduction to gross motor behavior development through the lifespan (neo-natal to senior adult). Growth, maturation, environmental influences, and developmental theories.  
**Prerequisites:** admis to Kin major; or admis to Kin minor and Bio Sci 202(P) with a C or greater; or cons instr.  
**Last Taught:** Fall 2019, Summer 2019, Fall 2018, Summer 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 361 Principles of Motor Learning  
3 cr. Undergraduate.  
An overview of the principles of motor skill acquisition emphasizing variables related to the learner and the learning environment.  
**Prerequisites:** admis to Kin major; or admis Kin minor and Bio Sci 202(P) with a C or greater; or cons instr.  
**Course Rules:** Not open to students with cr in Kin 561.  
**Last Taught:** Spring 2020, Spring 2019, Summer 2018, Spring 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 365 Health Aspects of Mind and Body Practices  
3 cr. Undergraduate.  
Exploration of the scientific research available on the effectiveness of common mind and body practices and the mechanisms through which these practices affect health.  
**Prerequisites:** BMS 260(C) or equiv.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 368 Intervention Strategies in Complementary and Integrative Health Approaches  
3 cr. Undergraduate.  
Examination of the efficacy of commonly used strategies and therapies considered to be Complementary and Alternative Medicine.  
**Prerequisites:** BMS 260(P) or equiv.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 400 Ethics and Values in the Health and Fitness Professions  
3 cr. Undergraduate.  
Exploration of morality and ethics and their importance in the allied health professions.  
**Prerequisites:** none.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 410 Medical Aspects of Illness Management  
3 cr. Undergraduate.  
Knowledge and techniques used in identification and management of common medical conditions and illnesses in physically active populations.  
**Prerequisites:** admis to Athletic Training major; Kin 316(P), 216(C), & 416(C), or cons instr.  
**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
KIN 412 Foundations of Injury Prevention & Performance
3 cr. Undergraduate.
The foundational knowledge, skills, and science that inform injury prevention, rehabilitation, and performance in sport and physical activity.
Prerequisites: Admis to athletic training prog; Kin 315(P), 320(P), & 416(C); or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 290 w/same topic.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 413 Therapeutic Modalities in Athletic Training
3 cr. Undergraduate.
Introduction to tissue healing, pain control, indications, contraindications, protocols, and the body’s responses to various therapeutic modalities.
Prerequisites: admis to athletic training major; Kin 314(C), & 416(C); or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 414 Therapeutic Exercise and Rehabilitation Techniques in Athletic Training
3 cr. Undergraduate.
Introduction to the theory and practical aspects of therapeutic exercise and rehabilitation techniques used in the care of musculo-skeletal injuries.
Prerequisites: admis to athletic training prog; Kin 412(P) & 416(C); or cons instr.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 416 Competencies in Athletic Training
2 cr. Undergraduate.
Practice, testing, and practical field application of educational competencies and clinical proficiencies in athletic training.
Prerequisites: acceptance into student Athletic Training prog.
Course Rules: May be retaken to 10 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 430 Exercise Testing for Fitness Assessment and Exercise Prescription
3 cr. Undergraduate.
Methods for assessing physical fitness in various populations, guidelines for graded exercise testing and exercise prescription. Integrates lecture material with laboratory experience.
Prerequisites: Kin 330(P) or cons instr; current CPR/AED cert.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 480 Organization and Administration in the Exercise and Fitness Industry
3 cr. Undergraduate.
Study of the delivery of exercise services in relationship to organization and administration of programs with emphasis on promotions, budget, supervision, equipment and facilities.
Prerequisites: admis to Kin major; or Kin minor; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 481 Program Development and Evaluation in the Exercise and Fitness Industry
3 cr. Undergraduate.
Study of systematic program design and evaluation including systems approach, evaluation models, problem solving by objectives, management by objectives and accountability.
Prerequisites: Kin 330(P), 350(P), 351(P); or cons instr. Preference is given to students in the Health Promotion track.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 482 Innovative Approaches to Health and Wellness Coaching
3 cr. Undergraduate.
Study of health and wellness coaching theory and practice related to health behavior change.
Prerequisites: sr standing or cons instr.
Course Rules: Counts as repeat of KIN 590 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 489 Kinesiology Internship and Seminar
3-14 cr. Undergraduate.
Supervisory/clinical/research assignment in approved field instruction setting; seminar to monitor and assist with professional progress.
Prerequisites: Kin 303(P) and all undergrad coursework completed; or cons instr. See internship eligibility criteria in the Kinesiology section of the undergraduate catalog.
Course Rules: May be retaken to max of 14 cr. Not open for cr to students with cr in Spt&Rec 489(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 520 Introduction to Biomechanics Research
3 cr. Undergraduate/Graduate.
Introduction to biomechanics experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.
Prerequisites: jr st; grade of C or better in KIN 320(P), MATH 117(P), and PHYSICS 110(R) or PHYSICS 120(R); or grad st; or consent of instructor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 520G Introduction to Biomechanics Research
3 cr. Undergraduate/Graduate.
Introduction to biomechanics experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.
Prerequisites: jr st; grade of C or better in KIN 320(P), MATH 117(P), and PHYSICS 110(R) or PHYSICS 120(R); or grad st; or consent of instructor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 522 Qualitative Analysis of Human Movement
3 cr. Undergraduate/Graduate.
Exploration of systematic qualitative analysis of human movement focusing on detecting and correcting faults in technique.
Prerequisites: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 590 with same title.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 522G Qualitative Analysis of Human Movement
3 cr. Undergraduate/Graduate.
Exploration of systematic qualitative analysis of human movement focusing on detecting and correcting faults in technique.
Prerequisites: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 590 with same title.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 525 Human Gross Anatomy
6 cr. Undergraduate/Graduate.
A comprehensive consideration of the human anatomy including both neuro-musculoskeletal components and internal organ systems.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 525G Human Gross Anatomy
6 cr. Undergraduate/Graduate.
A comprehensive consideration of the human anatomy including both neuro-musculoskeletal components and internal organ systems.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 526 Introduction to Physical Therapy Practice and Examination Techniques
3 cr. Undergraduate/Graduate.
Students will learn roles, professional behavior expectations, and patient examination techniques.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 526G Introduction to Physical Therapy Practice and Examination Techniques
3 cr. Undergraduate/Graduate.
Students will learn roles, professional behavior expectations, and patient examination techniques.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 527 Kinesiology & Biomechanics of Normal & Abnormal Movement
4 cr. Undergraduate/Graduate.
Principles & theories of the biomechanics of human motion presented to develop analytical skills to assess normal & abnormal movement.
Prerequisites: DPT student in good standing or grad st & cons instr; grad level Human Gross Anatomy w/lab, 8 cr undergrad Physics.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 527G Kinesiology & Biomechanics of Normal & Abnormal Movement
4 cr. Undergraduate/Graduate.
Principles & theories of the biomechanics of human motion presented to develop analytical skills to assess normal & abnormal movement.
Prerequisites: DPT student in good standing or grad st & cons instr; grad level Human Gross Anatomy w/lab, 8 cr undergrad Physics.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 530 Advanced Exercise Physiology
3 cr. Undergraduate/Graduate.
Advanced study of the physiological responses to exercise and the adaptations to physical training.
Prerequisites: jr st; grade of C or better in Kin 330(P); Kinesiology major or intended major; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 530G Advanced Exercise Physiology
3 cr. Undergraduate/Graduate.
Advanced study of the physiological responses to exercise and the adaptations to physical training.
Prerequisites: jr st; grade of C or better in Kin 330(P); Kinesiology major or intended major; or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 532 Electrocardiography Interpretation
3 cr. Undergraduate/Graduate.
In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.
Prerequisites: jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590(HMS 590) with similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 532G Electrocardiography Interpretation
3 cr. Undergraduate/Graduate.
In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.
Prerequisites: jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590(HMS 590) with similar title.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 541 Clinical Foundations of the Physical Therapy Examination
5 cr. Undergraduate/Graduate.
Instruction in the techniques of examining patients/clients.
Prerequisites: grad st; good standing in DPT prog
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 541G Clinical Foundations of the Physical Therapy Examination
5 cr. Undergraduate/Graduate.
Instruction in the techniques of examining patients/clients.
Prerequisites: grad st; good standing in DPT prog
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 550 Psychological Aspects of Human Movement  
3 cr. Undergraduate/Graduate.  
Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.  
**Prerequisites:** jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.  
**Last Taught:** Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 550G Psychological Aspects of Human Movement  
3 cr. Undergraduate/Graduate.  
Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.  
**Prerequisites:** jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.  
**Last Taught:** Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 551 Psychology of Injury/Illness/Disease: Implications/Strategies for Rehab  
3 cr. Undergraduate/Graduate.  
Explores the psychological aspects of health enhancement, disease prevention, and rehabilitation as well as the integration of behavioral and biomedical sciences in treating illness.  
**Prerequisites:** Psych 101(P).  
**Course Rules:** May be used by undergrads to repeat Kin 590 with same title.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 551G Psychology of Injury/Illness/Disease: Implications/Strategies for Rehab  
3 cr. Undergraduate/Graduate.  
Explores the psychological aspects of health enhancement, disease prevention, and rehabilitation as well as the integration of behavioral and biomedical sciences in treating illness.  
**Prerequisites:** Psych 101(P).  
**Course Rules:** May be used by undergrads to repeat Kin 590 with same title.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 552 Psychology of Personal Excellence  
3 cr. Undergraduate/Graduate.  
Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence.  
**Prerequisites:** jr st, grade of C or better in Kin 350(P); or grad st or cons instr.  
**Course Rules:** Counts as repeat of Kin 590 w/same topic.  
**Last Taught:** Summer 2018, Summer 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 552G Psychology of Personal Excellence  
3 cr. Undergraduate/Graduate.  
Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence.  
**Prerequisites:** jr st, grade of C or better in Kin 350(P); or grad st or cons instr.  
**Course Rules:** Counts as repeat of Kin 590 w/same topic.  
**Last Taught:** Summer 2018, Summer 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 555 Exercise Psychology  
3 cr. Undergraduate/Graduate.  
Psychological antecedents and consequences of physical activity in relation to mental health and public health.  
**Prerequisites:** jr st; Grade C or better in Kin 350(P) or cons instr.  
**Course Rules:** Counts as repeat of Kin 590 with same topic.  
**Last Taught:** Spring 2009.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 555G Exercise Psychology  
3 cr. Undergraduate/Graduate.  
Psychological antecedents and consequences of physical activity in relation to mental health and public health.  
**Prerequisites:** jr st; Grade C or better in Kin 350(P) or cons instr.  
**Course Rules:** Counts as repeat of Kin 590 with same topic.  
**Last Taught:** Spring 2009.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 556 Multilevel Approaches to Changing Physical Activity and Eating Behaviors  
3 cr. Undergraduate/Graduate.  
An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.  
**Prerequisites:** Admis to Kin major or Ath Trng major or Nutr major; Grade C or better in Kin 350(P); or grad st or cons instr.  
**Course Rules:** Counts as repeat of Kin 590 w/same topic.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 556G Multilevel Approaches to Changing Physical Activity and Eating Behaviors  
3 cr. Undergraduate/Graduate.  
An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.  
**Prerequisites:** Admis to Kin major or Ath Trng major or Nutr major; Grade C or better in Kin 350(P); or grad st or cons instr.  
**Course Rules:** Counts as repeat of Kin 590 w/same topic.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)  

KIN 559 Introduction to Research Methods  
3 cr. Undergraduate/Graduate.  
An introduction to the methods used to examine how the nervous system and musculoskeletal system work cooperatively to produce human movement.  
**Prerequisites:** jr st; a grade of C or better in KIN 461(P) or cons instr.  
**Last Taught:** Fall 2018, Fall 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
KIN 561G Introduction to Motor Control Research
3 cr. Undergraduate/Graduate.
An introduction to the major theoretical and empirical perspectives used to examine how the nervous system and musculoskeletal system work cooperatively to produce human movement.
Prerequisites: jr st; a grade of C or better in KIN 461(P) or cons instr.
Last Taught: Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 566 Functional Neuroanatomy
3 cr. Undergraduate/Graduate.
The anatomical basis of neuroscience in physical therapy.
Prerequisites: grad st; good standing in DPT prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 566G Functional Neuroanatomy
3 cr. Undergraduate/Graduate.
The anatomical basis of neuroscience in physical therapy.
Prerequisites: grad st; good standing in DPT prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 570 Sociological Aspects of Physical Activity
3 cr. Undergraduate/Graduate.
Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.
Prerequisites: jr st; must have obtained a grade of C or better in Kin(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 570G Sociological Aspects of Physical Activity
3 cr. Undergraduate/Graduate.
Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.
Prerequisites: jr st; must have obtained a grade of C or better in Kin(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 573 Body Image: Influences and Health-Related Implications
3 cr. Undergraduate/Graduate.
In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.
Prerequisites: jr st, Psych 101(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 573G Body Image: Influences and Health-Related Implications
3 cr. Undergraduate/Graduate.
In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.
Prerequisites: jr st, Psych 101(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 574 Obesity and Weight Management
3 cr. Undergraduate/Graduate.
Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.
Prerequisites: jr st; grade of C or better in BMS 232(P) or Nutr 235(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 574G Obesity and Weight Management
3 cr. Undergraduate/Graduate.
Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.
Prerequisites: jr st; grade of C or better in BMS 232(P) or Nutr 235(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 575 The Social Construction of Obesity
3 cr. Undergraduate/Graduate.
Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity.
Prerequisites: jr st; grade of C or better in Kin 351(P); or cons instr.
Course Rules: Counts as repeat of HMS 590 with same topic.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 575G The Social Construction of Obesity
3 cr. Undergraduate/Graduate.
Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity.
Prerequisites: jr st; grade of C or better in Kin 351(P); or cons instr.
Course Rules: Counts as repeat of HMS 590 with same topic.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 590 Current Topics in Human Kinetics:
1-3 cr. Undergraduate/Graduate.
The specific topic will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, cons instr for grad cr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 590G Current Topics in Human Kinetics:
1-3 cr. Undergraduate/Graduate.
The specific topic will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, cons instr for grad cr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 640 Scientific Principles of Interventions
5 cr. Undergraduate/Graduate.
The basic therapeutic interventions used to treat impairments and functional limitations in the different biological systems that lead to movement dysfunction.
Prerequisites: grad st; good standing in DPT prog; graduate level Human Gross Anatomy course with lab; Anatomy/physiology, physics, 8 cr each with labs.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 640G Scientific Principles of Interventions
5 cr. Undergraduate/Graduate.
The basic therapeutic interventions used to treat impairments and functional limitations in the different biological systems that lead to movement dysfunction.
Prerequisites: grad st; good standing in DPT prog; graduate level Human Gross Anatomy course with lab; Anatomy/physiology, physics, 8 cr each with labs.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 641 Cardiopulmonary Evaluation & Treatment
3 cr. Undergraduate/Graduate.
The normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 641G Cardiopulmonary Evaluation & Treatment
3 cr. Undergraduate/Graduate.
The normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 642G Professionalism and Ethos of Care
3 cr. Undergraduate/Graduate.
The ethics of professional practice, fiduciary relationships, rights, duties associated with the patient/therapist relationship, and the role character plays in ethical decision-making.
Prerequisites: grad st; good standing in DPT prog
Last Taught: Fall 2016, Fall 2015, Fall 2014, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 643G Integument System
2 cr. Graduate.
Exploration of factors predisposing skin to breakdown; preventative measures, specific examination, and intervention techniques utilized in treating burns, wounds, and amputations.
Prerequisites: graduate standing, admis to DPT program; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 642 Professionalism and Ethos of Care
3 cr. Undergraduate/Graduate.
The ethics of professional practice, fiduciary relationships, rights, duties associated with the patient/therapist relationship, and the role character plays in ethical decision-making.
Prerequisites: grad st; intro level statistics course at U/G or G level.
Last Taught: Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 643 Integument System
2 cr. Graduate.
Exploration of factors predisposing skin to breakdown; preventative measures, specific examination, and intervention techniques utilized in treating burns, wounds, and amputations.
Prerequisites: graduate standing, admis to DPT program; or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 680 Clinical Fieldwork I
1 cr. Undergraduate/Graduate.
The student will be assigned to a clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population.
Prerequisites: grad st; good standing in DPT prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 680G Clinical Fieldwork I
1 cr. Undergraduate/Graduate.
The student will be assigned to a clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population.
Prerequisites: grad st; good standing in DPT prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 681G Fieldwork II: Basic Skills Experience
2 cr. Graduate.
Clinically based learning experience focusing on patient evaluation and treatment skills while fostering professional behavior through clinical mentorship.
Prerequisites: graduate standing, admis to DPT program; Kin 680(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 681G Fieldwork II: Basic Skills Experience
2 cr. Graduate.
Clinically based learning experience focusing on patient evaluation and treatment skills while fostering professional behavior through clinical mentorship.
Prerequisites: graduate standing, admis to DPT program; Kin 680(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 701 Seminar in Human Movement Sciences
1-3 cr. Graduate.
Research in the Human Movement Sciences subdisciplines including critical review of theories, perspectives and methods. Faculty, student presentations of current work.
Prerequisites: grad st
Course Rules: Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 702 Statistical Analysis in the Health Sciences
3 cr. Graduate.
Univariate, bivariate, and multivariate analyses as they apply to health science research.
Prerequisites: grad st; intro level statistics course at U/G or G level.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 703 Survey of Research in the Human Movement Sciences
3 cr. Graduate.
Methods for multi-disciplinary human movement inquiry; problem/ statistical design; critique of available literature; preliminary thesis/ project design.
Prerequisites: grad st; Kin 702(P).
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 706 Research & Applied Statistics in Physical Therapy
3 cr. Graduate.
Specific quantitative research designs and statistics with an emphasis on clinical research; methods for critically evaluating research literature.
Prerequisites: grad st, admis to DPT program; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 710 Evidence Based Practice: Levels of Evidence  
1 cr. Graduate.  
Strategies for evaluating the evidence underlying physical therapy practice as a framework for creating and evaluating best practice decisions.  
**Prerequisites:** grad st, admis to DPT Program; or cons instr.  
**Last Taught:** Summer 2009, Summer 2008.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 711 Evidence Based Practice: Interventions  
1 cr. Graduate.  
Focus on information access and retrieval from research literature used to inform physical therapy interventions for treatment of movement disorders.  
**Prerequisites:** grad st; admis to DPT Program or cons instr.  
**Last Taught:** Fall 2009, Fall 2008.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 712 Evidence Based Practice: Tests & Measures  
1 cr. Graduate.  
Focus on the critical analysis of published clinical research related to physical therapy tests and measures.  
**Prerequisites:** grad st; admis to DPT Program or cons instr.  
**Last Taught:** Spring 2010, Spring 2009.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 713 Professional Issues in Physical Therapy  
1 cr. Graduate.  
Strategies for growth & adaptation of physical therapy practice in the context of a changing health care environment.  
**Prerequisites:** grad st; valid license to practice physical therapy or cons instr  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 714 Evidence for Practice I  
3 cr. Graduate.  
Provides clinicians with a rubric for searching & evaluating the published literature supporting physical therapy practice & informing best practice decisions.  
**Prerequisites:** grad st; valid license to practice physical therapy or cons instr  
**Last Taught:** Fall 2007.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 715 Evidence for Practice II  
3-6 cr. Graduate.  
Synthesis of prior coursework in the development and presentation of a clinical practice decision supported with best evidence practices.  
**Prerequisites:** grad st; valid license to practice physical therapy.  
**Course Rules:** Retakable to 6 cr max.  
**Last Taught:** Summer 2008, Fall 2007.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 716 Seminar: The Culture of Evidence  
1 cr. Graduate.  
The role of evidence in physical therapy clinical decision making with application to current interventions.  
**Prerequisites:** grad st; valid license to practice physical therapy or cons instr  
**Last Taught:** Summer 2007.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 717 Pharmacology In Rehabilitation  
2 cr. Graduate.  
Pharmacologic agents encountered in physical therapy rehabilitation settings focusing on pharmacodynamics, pharmacokinetics, biotransformation of drugs, and clinical application for relevant drug classifications.  
**Prerequisites:** grad st, admis to DPT Program; or cons instr  
**Last Taught:** Spring 2013, Spring 2012, Fall 2011, Fall 2010.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 718 Clinical Radiology  
1-2 cr. Graduate.  
Medical diagnostics emphasizing indications & implications for imaging studies used to augment information obtained from the physical therapy examination.  
**Prerequisites:** grad st, admis to DPT Program; or cons instr  
**Course Rules:** Counts as repeat of KIN 590 with same topic  
**Last Taught:** Summer 2020, Fall 2019, Fall 2018, Fall 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 720 Advanced Biomechanics Research  
3 cr. Graduate.  
Introduction to advanced biomechanics collection techniques. Course focuses on basic programming, data collection/analysis, and presentation skills.  
**Prerequisites:** grad st; KIN 520(C); or cons instr  
**Course Rules:** Counts as repeat of KIN 590 with same topic.  
**Last Taught:** Fall 2018, Fall 2016, Fall 2013, Fall 2011.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 721 Muscle Mechanics & Modeling  
3 cr. Graduate.  
An in-depth background in muscle mechanics. Basic muscle mechanics, classic research studies, and the development of a computer muscle model to understand force production and movement control through musculoskeletal modeling.  
**Prerequisites:** graduate standing or consent of instructor.  
**Course Rules:** Counts as repeat of KIN 590 with similar topic.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 725 Interdisciplinary Themes in Biomechanics  
3 cr. Graduate.  
Emphasis on biomechanical research themes of an interdisciplinary character. Readings drawn from primary research literature.  
**Prerequisites:** grad st; KIN 520(P); or cons instr.  
**Last Taught:** Fall 2014, Fall 2010, Spring 2006, Fall 2003.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 732 Physical Activity and Health Across the Lifespan  
3 cr. Graduate.  
The role of physical activity in the prevention and treatment of various chronic conditions and diseases.  
**Prerequisites:** grad st; KIN 330(P) w/ grade of C or better or cons instr.  
**Last Taught:** Spring 2019, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

KIN 733 Advanced Physiological Assessment  
3 cr. Graduate.  
Designed to introduce students to advanced physiological testing techniques. Assumes knowledge of basic exercise testing skills, exercise physiology principles.  
**Prerequisites:** grad st; Kin 530(C) or cons instr.  
**Last Taught:** Fall 2019, Fall 2017, Fall 2015, Fall 2014.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Course Information</th>
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</thead>
<tbody>
<tr>
<td>KIN 740</td>
<td>Musculoskeletal: Spine</td>
<td>3 cr.</td>
<td>Graduate. Evaluation and treatment techniques for spinal dysfunction and injury</td>
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<td>including mechanical assessment, postural training, therapeutic exercise, manual</td>
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<td>therapy, and modalities.</td>
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<td><strong>Prerequisites:</strong> grad st, admis to DPT Program; or cons instr.</td>
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<td><strong>Last Taught:</strong> Spring 2020, Spring 2019, Spring 2018, Spring 2017.</td>
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<td><strong>Current Offerings:</strong> <a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
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<tr>
<td>KIN 741</td>
<td>Musculoskeletal System: Lower Extremities</td>
<td>3 cr.</td>
<td>Graduate. Orthopedic physical therapy evaluation and treatment aspects of lower</td>
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<td>extremity musculoskeletal problems involving skeletal, connective tissue</td>
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<td>and muscular components.</td>
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<td><strong>Prerequisites:</strong> grad st, admis to DPT Program; or cons instr.</td>
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<td><strong>Last Taught:</strong> Summer 2020, Summer 2019, Summer 2018, Summer 2017.</td>
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<tr>
<td>KIN 742</td>
<td>Musculoskeletal: Upper Extremities</td>
<td>3 cr.</td>
<td>Graduate. Orthopedic physical therapy evaluation and treatment aspects of upper</td>
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<td>extremity musculoskeletal problems involving skeletal, connective tissue</td>
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<td>and muscular components.</td>
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<td><strong>Prerequisites:</strong> grad st; valid license to practice physical therapy or cons</td>
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<td>instr. <strong>Last Taught:</strong> Fall 2019, Fall 2018, Fall 2017, Fall 2016.</td>
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<td><strong>Current Offerings:</strong> <a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
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<tr>
<td>KIN 743</td>
<td>Health Systems Review</td>
<td>2 cr.</td>
<td>Graduate. Provides systems overview of screening procedures necessary to provide</td>
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<td>a comprehensive physical therapy diagnosis with an emphasis on screening for referral.</td>
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<td><strong>Prerequisites:</strong> grad st; valid license to practice physical therapy or cons instr.</td>
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<td><strong>Last Taught:</strong> Spring 2008, Spring 2007. <strong>Current Offerings:</strong> <a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
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<tr>
<td>KIN 745</td>
<td>Health Promotion/Wellness for Physical Therapy</td>
<td>2 cr.</td>
<td>Graduate. Explores many aspects of health / wellness.</td>
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<td>Practice</td>
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<td><strong>Prerequisites:</strong> grad st; good standing in DPT prog or cons instr.</td>
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<td><strong>Last Taught:</strong> Spring 2020, Spring 2019, Spring 2018, Spring 2017.</td>
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<td>KIN 746</td>
<td>Case-based Clinical Decision Making</td>
<td>2 cr.</td>
<td>Graduate. Clinical decision-making in physical therapy including formulation of a</td>
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<td>diagnosis and plan of care supported by evidence from literature.</td>
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<td><strong>Prerequisites:</strong> grad st; admis to DPT Program or cons instr.</td>
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<td><strong>Last Taught:</strong> Spring 2020, Spring 2019, Spring 2018, Spring 2017.</td>
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<td><strong>Prerequisites:</strong> grad st, admis to DPT Program; or cons instr.</td>
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<td><strong>Last Taught:</strong> Fall 2019, Fall 2018, Fall 2017, Fall 2016.</td>
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<td>KIN 766</td>
<td>Neuromuscular: Pediatric</td>
<td>4 cr.</td>
<td>Graduate. Pediatric onset diagnosis, related examination, interventions, clinical</td>
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<td>management, and legislation impacting pediatric physical therapy practice.</td>
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<td><strong>Prerequisites:</strong> grad st; admis to DPT Program or cons instr.</td>
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<td><strong>Last Taught:</strong> Spring 2020, Spring 2019, Spring 2018, Spring 2017.</td>
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<td><strong>Current Offerings:</strong> <a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
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<td>KIN 780</td>
<td>Clinical Teaching</td>
<td>2 cr.</td>
<td>Graduate. Exploration of patient education intervention focusing on patient</td>
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<td>adherence in the context of learning theory, adult learning, and learning domains.</td>
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<td><strong>Prerequisites:</strong> grad st; admis to DPT Program or cons instr.</td>
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<td><strong>Last Taught:</strong> Fall 2015, Fall 2014, Fall 2013, Fall 2012.</td>
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<td><strong>Current Offerings:</strong> <a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
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<tr>
<td>KIN 785</td>
<td>Independent Project</td>
<td>1-6 cr.</td>
<td>Graduate. Student research in consultation with and supervised by a graduate faculty</td>
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<td>member. <strong>Prerequisites:</strong> grad st; cons instr <strong>Course Rules:</strong> Retakable w/ chg</td>
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<td>in topic to 6 cr max. <strong>Last Taught:</strong> Spring 2020, Fall 2019, Spring 2019, Fall 2018.</td>
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<td><strong>Current Offerings:</strong> <a href="https://catalog.uwm.edu/course-search/">https://catalog.uwm.edu/course-search/</a></td>
</tr>
</tbody>
</table>
KIN 799 Independent Reading
1-3 cr. Graduate.
Independent study of a topic selected by the student in consultation with the supervising graduate faculty member.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 830 Physiological Adaptations to Exercise
3 cr. Graduate.
Physiological factors related to performing physical activity and exercise on a chronic basis; various environmental influences on physical performance.
Prerequisites: grad st; a grade of C or better in Kin 530(P).
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 850 Seminar in Psychological Aspects of Physical Activity
3 cr. Graduate.
Advanced seminar on selected topics in the psychology of physical activity.
Prerequisites: grad st; Kin 550(P) or cons instr.
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 871 Socialization and Physical Activity
3 cr. Graduate.
Advanced seminar on research relevant to the development/lack of development of physically active lifestyles.
Prerequisites: grad st; Kin 870(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 880 PT Clinical Internship I
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: DPT student in good st.
Last Taught: Fall 2013, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 881 PT Clinical Internship II
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: DPT student in good st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 882 PT Clinical Internship III
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: Kin 881(P); DPT student in good st.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 889 Professional Physical Therapy Credential Preparation
1 cr. Graduate.
Guidance in preparing for the Federation of State Boards of Physical Therapy licensing exam.
Prerequisites: DPT student in good standing or grad st & cons instr.
Course Rules: Course is offered in a distance learning format.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 890 Capstone Project
1-6 cr. Graduate.
Preparation of a research project under the supervision of the student’s major professor.
Prerequisites: grad st.
Course Rules: Not open to students selecting options A.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 891 Research Seminar
3 cr. Graduate.
Advanced seminar on the synthesis and critique of research literature within the student’s primary and secondary subdisciplines.
Prerequisites: grad st; completion of all or conc reg in remaining coursework for degree.
Course Rules: Not open to option A or C students.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 895 Research and Thesis
1-6 cr. Graduate.
Preparation of a thesis under the direction of the student’s primary and secondary advisors.
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 909 Guided Teaching Experience in Health Sciences
3 cr. Graduate.
This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.
Prerequisites: grad st; Occ Thpy 900 (P); cons instr
Course Rules: Jointly offered w/ and counts as a repeat of BMS 909, HCA 909, OccThpy 909, and ComsDis 909.
Current Offerings: https://catalog.uwm.edu/course-search/
KIN 910 Advanced Seminar in Health Sciences
1 cr. Graduate.
Faculty, graduate students, and invited guests will present their research and engage in discussion around themes of broad interest, e.g., public health.
Prerequisites: grad st
Course Rules: Retakable to 4 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 930 Seminar in Exercise Physiology
1-3 cr. Graduate.
Evaluation of current research and methodology in exercise physiology.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 9 cr max w/change in topic.
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 990 Research and Thesis
1-6 cr. Graduate.
Preparation of a thesis under the direction of the student’s primary and secondary advisors.
Prerequisites: grad st.
Course Rules: May be repeated to max of 6 cr. Not open to students selecting options B or C.
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 991 Doctoral Dissertation
1-12 cr. Graduate.
Dissertation research
Prerequisites: grad st; admit to Ph.D. candidacy
Current Offerings: https://catalog.uwm.edu/course-search/

KIN 999 Advanced Independent Study
1-6 cr. Graduate.
Independent study on topic selected by student and supervising graduate faculty member.
Prerequisites: grad st; cons instr
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Korean (KOREAN)

KOREAN 101 First-Semester Korean
5 cr. Undergraduate.
Beginning Korean for students with no previous knowledge of the language.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 102 Second-Semester Korean
5 cr. Undergraduate.
Continuation of Korean 101.
Prerequisites: Korean 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 201 Third Semester Korean
5 cr. Undergraduate.
Continuation of Korean 201.
Prerequisites: Korean 201(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 202 Fourth Semester Korean
5 cr. Undergraduate.
Continuation of Korean 202.
Prerequisites: Korean 202(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 221 Korean Culture and Society
3 cr. Undergraduate.
Exploration of Korean history, language, religion, and social values through literature, film, and discussion.
Prerequisites: none.
Course Rules: Counts as a repeat of FLL 216 w/same topic.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 289 Internship in Korean, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc regin UROP seminar.
Course Rules: One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/
KOREAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 301 Fifth Semester Korean
3 cr. Undergraduate.
First half of a third year course designed for those who have successfully completed Korean language study through the 200-level.
Prerequisites: KOREAN 202(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 489 Internship in Korean, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Spring 2017, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

KOREAN 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Korean faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

Latin (LATIN)

LATIN 103 First Semester Latin
4 cr. Undergraduate.
A systematic introduction to the morphology, syntax, and vocabulary of Latin.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 104 Second Semester Latin
4 cr. Undergraduate.
Continuation of Latin 103: systematic introduction to the morphology, syntax, and vocabulary of Latin.
Prerequisites: Latin 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 150 Intensive Latin
4 cr. Undergraduate.
Rapid introduction to Latin for students in fields other than classics who require a knowledge of Latin for continued work in their fields. Readings concentrate on medieval Latin.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 205 Third Semester Latin
4 cr. Undergraduate.
Continuation of Latin 104: systematic introduction to the morphology, syntax, and vocabulary of Latin.
Prerequisites: Latin 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).
Course Rules: Counts as repeat of Latin 201.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
LATIN 289 Internship in Latin, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Latin in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Latin; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 306 Readings in Latin Literature:
3 cr. Undergraduate.
Reading of texts of Latin literature with emphasis on morphology, syntax, vocabulary; a transition to 500 level courses.
Prerequisites: Latin 205(P) or equiv H.S. prep as determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Counts as repeat of 2 cr Latin 203 & 1 cr Latin 310. May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 489 Internship in Latin, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Latin in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Latin; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 501 Readings in Latin Prose:
3 cr. Undergraduate/Graduate.
Extensive reading in a major author or related major authors; e.g., Cicero, Caesar, the historians, Seneca, Pliny the Younger.
Prerequisites: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 502 Readings in Latin Poetry:
3 cr. Undergraduate/Graduate.
Extensive reading in a major or related major authors, e.g., the comic dramatists, the lyric poets, the elegists, the satirists, the writers of epic.
Prerequisites: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 502G Readings in Latin Poetry:
3 cr. Undergraduate/Graduate.
Extensive reading in a major or related major authors, e.g., the comic dramatists, the lyric poets, the elegists, the satirists, the writers of epic.
Prerequisites: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 508 Latin Prose Composition
3 cr. Undergraduate/Graduate.
Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors.
Prerequisites: Latin 310(P) or equiv as judged by instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 508G Latin Prose Composition
3 cr. Undergraduate/Graduate.
Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors.
Prerequisites: Latin 310(P) or equiv prep as judged by instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LATIN 699 Directed Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Last Taught: Fall 2014, Fall 2013, Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
Latin American and Caribbean Studies (LACS)

LACS 101 Introduction to Latin American and Caribbean Studies
3 cr. Undergraduate.
Lectures and discussion of a range of topics relating to Latin America and the Caribbean that lead to an understanding of the cultures of these areas.
Prerequisites: none.
General Education Requirements: SS

LACS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS

LACS 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

LACS 199 Independent Study:
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program director.
Prerequisites: 2.0 GPA, consent of instructor, program director, and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.

LACS 201 Special Topics in Latin American and Caribbean Studies:
3 cr. Undergraduate.
Topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.

LACS 289 Internship in Latin American/Caribbean Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa, cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

LACS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combinations of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.

LACS 301 Advanced Topics in Latin American and Caribbean Studies:
3 cr. Undergraduate.
Advanced-level topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.

LACS 326 Brazilian Politics and Society
3 cr. Undergraduate.
Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment.
Prerequisites: jr st.
Course Rules: Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 489 Internship in Latin American/Caribbean Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Latin American/Caribbean studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Spring 2017, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
Current Offerings:
LACS 496 Advanced UROP Apprenticeship
1-3 cr. Undergraduate.
Advanced undergraduate research participation in a project developed
with a supervising member of the faculty of staff.
Prerequisites: acceptance to UROP; prior UROP apprenticeship or equiv
rsrch experience.
Course Rules: One cr for 45 hrs research. Retakable to 9 cr max in any
combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course
work level, content, and credits are determined and/or in specially-
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course
work level, content, and credits are determined and/or in specially-
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment
period. Requires only progr dir & assoc dean approval. In exceptional
circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'/l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Latin
American/Caribbean studies faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, program director, and
Assistant Dean for Student Academic Services.
Course Rules: Retakable with change in topic to 9 cr max in any
combination of LACS/Latino 698, LACS 699, and Latino 699.
Last Taught: Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LACS 789 Graduate Internship in Latin American and Caribbean Studies
1-3 cr. Graduate.
Application of basic principles of Latin American/Caribbean Studies
in business, organizational, educational, political, or other appropriate
setting.
Prerequisites: One cr earned for academic work based on 40 hrs in
internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Latin American, Caribbean, and U.S.
Latinx Studies (LACUSL)

LACUSL 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff
member. For further information, consult the program coordinator.
Prerequisites: 2.0 GPA; consent of instructor, program coordinator, and
Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 200 Special Topics in Latin American, Caribbean, and U.S. Latinx
Studies:
1-3 cr. Undergraduate.
Various topics that integrate the experiences of Latin American,
Caribbean, and U.S. Latinx populations, environments, and/or cultures.
Prerequisites: none.
Course Rules: Retakable with change in topic to 9 cr max. Counts as
repeat of LACS 200/LATINO 200 with same topic.
Last Taught: Fall 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 201 Latin American, Caribbean, and U.S. Latinx Arts and Culture:
3 cr. Undergraduate.
Approaches to the art, literature, and other cultural productions of Latin
America, the Caribbean, and the Latinx U.S.
Prerequisites: none.
Course Rules: Retakable with change in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 289 Internship-Latin American, Caribbean, & U.S. Latinx Studies,
Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Latin American, Caribbean, and U.S.
Latinx studies in business, organizational, educational, political, or other
appropriate setting.
Prerequisites: 2.50 GPA and consent of supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in
internship. Retakable to 6 cr max.
Last Taught: Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a
supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or concurrent reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any
combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/
LACUSL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course
work levels, content, and credits are determined and/or in specially-
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable with change in topic to 9 cr max. Counts as
repeat of LACS 200/LATINO 300 with same topic.
Last Taught: Spring 2016, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 300 Advanced Topics in Latin American, Caribbean, and U.S.
Latinx Studies:
3 cr. Undergraduate.
Advanced study of topics that integrate the experiences of U.S. Latinx
populations with their countries of origin.
Prerequisites: junior standing.
Course Rules: Retakable with change in topic to 9 cr max. Counts as
repeat of LACS 200/LATINO 300 with same topic.
Last Taught: Spring 2016, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 324 Theatre in the Americas: Latin American, Caribbean, and
Latina/o Theatre
3 cr. Undergraduate.
Survey of Latin American, Caribbean, and U.S. Latina/o theatre and
performance. History and cultures of the Americas that shape these
productions.
Prerequisites: jr st.
Course Rules: Counts as repeat of LACS or Latino 324. LACUSL 324 &
Theatre 324 are jointly-offered; they count as repeats of one another.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 489 Internship in Latin American, Caribbean, and US Latinx
Studies, Upper Level
1-6 cr. Undergraduate.
Application of basic principles of Latin American, Caribbean, and U.S.
Latinx studies in business, organizational, educational, political, or other
appropriate setting.
Prerequisites: junior standing; 2.50 GPA; and written consent of
supervising professor.
Course Rules: One cr earned for academic work based on 40 hrs in
internship. Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 496 UROP Apprenticeship, Upper Level
1-3 cr. Undergraduate.
Advanced-level undergraduate research in a project developed with a
supervising member of the faculty or academic staff. One credit for 45
hours research.
Prerequisites: jr st; acceptance to UROP; prior on conc reg in UROP
seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP
apprenticeship courses.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 497 Study Abroad:
1-12 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only prog coord & assoc dean approval. In exceptional
circumstances, can be offered in one add'l semester.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Designed to enroll students in UW-sponsored program before course
work levels, content, and credits are determined and/or in specially-
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 680 LACUSL Senior Research Project
3 cr. Undergraduate.
Independent capstone project for the LACUSL major, integrating Latinx
and Latin American/Caribbean perspectives on a topic selected by the
student in consultation with their faculty mentor.
Prerequisites: senior standing and declared LACUSL major.
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

LACUSL 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced independent work under supervision of faculty or academic
staff member. For further information, consult the program coordinator.
Prerequisites: jr st; 2.0 GPA; consent of instructor, program coordinator,
and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Latino Studies (LATINO)

LATINO 101 Introduction to Latino Studies
3 cr. Undergraduate.
Analyzes of the historical and structural forces which have shaped the
experience of Latinos in the U.S., including the relationship between
Latinos and social institutions.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/
LATINO 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 199 Independent Study
1-3 cr. Undergraduate.
Independent study under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 201 Special Topics in U.S. Latino Studies:
3 cr. Undergraduate.
Interdisciplinary topics central to U.S. Latino studies.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 267 The History of Latinos in the United States
3 cr. Undergraduate.
History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.
Prerequisites: none.
Course Rules: Hist 267 & Latino 267 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 279 Introduction to U.S. Latino/a Literature:
3 cr. Undergraduate.
Latino/a American literature with a focus on region, genre, theme, or period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: Retakable w/chg in topic to 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 289 Internship in Latino Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 301 Advanced Topics in U.S. Latino Studies:
3 cr. Undergraduate.
Advanced-level interdisciplinary topics central to U.S. Latino studies.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 323 Perspectives on Latino Communities
3 cr. Undergraduate.
Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans.
Prerequisites: jr st & any Sociol 100-level course or cons instr.
Course Rules: Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 374 Survey of U.S. Latino/a Literature
3 cr. Undergraduate.
A general, representative study of U.S. Latino/a literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: English 374 & Latino 374 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/
LATINO 388 Latino Politics
3 cr. Undergraduate.
Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation.
Prerequisites: jr st.
Course Rules: Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 489 Internship in Latino Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one addl sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 523 Studies in U.S. Latino/a Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc. in U.S. Latino/a Literature.
Prerequisites: Retakable w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another. Prerq: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LATINO 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Latino Studies faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Associate Dean for Student Academic Services.
Course Rules: Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, and Latino 699.
Last Taught: Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

Lesbian, Gay, Bisexual & Transgender Studies (LGBT)

LGBT 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 193 First-Year Seminar:
3 cr. Undergraduate.
Specific social science topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 200 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies
3 cr. Undergraduate.
Explores ideas about sexual identity and community through theory, literature, film, photography, music, and popular culture.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 275 Queer Migrations
3 cr. Undergraduate.
How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.
Prerequisites: none.
Course Rules: No cr for students w/cr in Ethnic 250 w/similar topic.
Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
LGBT 289 Internship in LGBT Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 290 Topics in LGBT Studies:
3 cr. Undergraduate.
Selected LGBT topics and issues. Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Not open to jrs & srs.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: Not open to jrs & srs.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 599 Selected Topics in LGBT Studies:
3 cr. Undergraduate.
Focus on a particular LGBT topic and/or issue.
Prerequisites: jr st, LGBT 200(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LGBT 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a LGBT studies faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Letters and Science-Humanities (L&S HUM)

L&S HUM 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2014, Fall 2012, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 289 Internship in Humanities, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of humanities in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in humanities; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
L&S HUM 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP, prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 489 Internship in Humanities, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of humanities in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in humanities; 2.25 gpa; cons supervising faculty.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 496 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: jr st; acceptance to UROP, prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2013, Summer 1987.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 701 Topics in the Humanities:
1-3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st; cons instr
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S HUM 800 Newberry Library Renaissance Seminar:
1-3 cr. Graduate.
Graduate seminars at the Newberry Library on such topics as philology, paleography, and archival sciences. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons major adviser & chair of Renaissance Advisory Comm
Course Rules: Retakable w/topic chg to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Letters and Science-Natural Science (L&S NS)

L&S NS 111 Introduction to the Practice of Pharmacy
1 cr. Undergraduate.
Overview of pharmacy, including historical perspectives. Specialization options, current issues and future trends; service learning component.
Prerequisites: cons L&S pre-health professions advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 120 STEM CELL Success and Career Seminar
1 cr. Undergraduate.
Strategies and practices to promote college success in STEM disciplines Retakable for cr to 4 cr max.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/
L&S NS 289 Internship in Natural Sciences, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in natural sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 295 Seminar in the Natural Sciences:
1-3 cr. Undergraduate.
Seminar on various topics in the natural sciences. Topic and prerequisites (if any) announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 6 cr max.

L&S NS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.

L&S SS 268 Practicum in Mock Trial I
1-3 cr. Undergraduate.
Introduction to the issues, concepts, and practice of mock trial.
Prerequisites: none.
Course Rules: Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 3 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

L&S SS 100 Experiential Learning
1-3 cr. Undergraduate.
Provides reflection, journaling, and other practices designed to make experiential learning activities more meaningful and impactful.
Prerequisites: none.
Course Rules: May be retaken twice, for a max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 295 Seminar in the Natural Sciences:
1-3 cr. Undergraduate.
Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in natural sciences; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 489 Internship in Natural Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st, 300-level or above course in natural sciences; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 496 UROP Apprenticeship, Upper Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP Apprenticeship courses.
Last Taught: Spring 2019, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S NS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.

Letters and Science-Social Sciences (L&S SS)

L&S SS 289 Internship in Natural Sciences, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in natural sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 496 UROP Apprenticeship, Upper Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP Apprenticeship courses.
Last Taught: Spring 2019, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.

L&S SS 100 Experiential Learning
1-3 cr. Undergraduate.
Provides reflection, journaling, and other practices designed to make experiential learning activities more meaningful and impactful.
Prerequisites: none.
Course Rules: May be retaken twice, for a max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

L&S SS 268 Practicum in Mock Trial I
1-3 cr. Undergraduate.
Introduction to the issues, concepts, and practice of mock trial.
Prerequisites: none.
Course Rules: Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined.
Current Offerings: https://catalog.uwm.edu/course-search/
L&S SS 289 Internship in Social Sciences, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of social sciences in a business,
organizational, educational, political, or other appropriate settings.
Prerequisites: intro course in social sciences; 2.25 gpa; cons supervising
faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in
internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 291 UROP Seminar
1 cr. Undergraduate.
Discussion of the methodology and intellectual underpinnings of
academic research. Required of all UROP participants.
Prerequisites: acceptance to UROP; conc reg in UROP apprenticeship.
Course Rules: Retakable to max 4 cr in any combination of L&S SS 291,
294, & 295.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a
supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any
combination of UROP apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 489 Internship in Social Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of social sciences in a business,
organizational, educational, political, or other appropriate setting.
Prerequisites: jr st, 300-level or above course in social sciences; 2.25 gpa;
cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in
internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 496 UROP Apprenticeship, Upper-Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a
supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP
seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP
Apprenticeship courses.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 498 Washington Internship
9 cr. Undergraduate.
Thirty-six hours of work per week in approved internships in Washington,
D.C. supervised by the Washington Center for Learning Alternatives.
Weekly seminar attendance.
Prerequisites: jr st, nomination by Washington Intern Committee, & conc
reg in appropriate 699 or other independent study course.
Course Rules: Cr/no cr only.
Last Taught: Summer 2014, Spring 2013, Fall 2011, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

L&S SS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
Liberal Studies (LIBRLST)

LIBRLST 701 Traditions and Transformations I:
3 cr. Graduate.
A fundamental contemporary issue explored through a historical perspective; emphasis on the humanities. Interdisciplinary resources, methods, theories. Required special programs outside regular class hours.
Prerequisites: grad st; admis to MLS Prog.
Course Rules: Not retakable.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 702 Traditions And Transformations II:
3 cr. Graduate.
Continuation of LibrlSt 701, exploring a contemporary issue within a more recent modern/postmodern context. Required special programs outside regular class hours emphasize course topics.
Prerequisites: grad st; LibrlSt 701(P)
Course Rules: Retakable w/chg in topic to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 721 Special Topics in Liberal Studies:
3 cr. Graduate.
Topics in human culture emphasizing the pervasiveness of a particular idea, belief, process, or other cultural construct in many facets of human society.
Prerequisites: grad st; admis to MLS Prog
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2011, Spring 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 722 Special Topics in Contemporary Cultural Studies:
3 cr. Graduate.
Topics in contemporary culture; emphasis on literature, experimental arts/film, mass culture, performance; new approaches to study of culture, including media theory, multi-culturalism, feminism, post-colonialism.
Prerequisites: grad st; admis to MLS Prog
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2015, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 797 Special Topics In International Liberal Studies:
3 cr. Graduate.
 Examination of a belief, idea, process, or other cultural construct in an international setting.
Prerequisites: grad st; admis to mls prog
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 798 Liberal Studies Master's Project
4 cr. Graduate.
Culmination of student's studies in MLS Program; may take any form appropriate to interdisciplinary focus of student's study prog. e.g. research paper, performance, literary/exhibition project.
Prerequisites: grad st; 20 cr in the MLS Prog.
Last Taught: Fall 2016, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 799 Independent Work in Liberal Studies
1-3 cr. Graduate.
Independent reading or project; topic selected in consultation with supervising professor.
Prerequisites: grad st; admis to MLS Prog.
Last Taught: Fall 2016, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

LIBRLST 901 Seminar on Philosophical Approaches to Science
3 cr. Graduate.
The nature and function of sciences, the logic of the scientific method as it relates to health, and implications of research and practices in health care.
Prerequisites: grad st.
Course Rules: C L Sci 901 & LibrlSt 901 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

Linguistics (LINGUIS)

LINGUIS 100 The Diversity of Human Language
3 cr. Undergraduate.
Survey course on the nature and diversity of human language. Topics include language and society, dialects, language and culture, language acquisition, and language typology.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 102 Uncommonly Taught Language: Intensive First Semester:
5-7 cr. Undergraduate.
Intensive training in an uncommonly taught language, for students with no previous knowledge of the language.
Prerequisites: none.
Course Rules: May be retaken w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 103 First Semester of an Uncommonly-Taught Language:
1-4 cr. Undergraduate.
Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number.
Prerequisites: none.
Course Rules: For students with no previous knowledge of the language. May be retaken w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 104 Second Semester of an Uncommonly Taught Language: 3-4 cr. Undergraduate.
Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 103 (Linguis 131)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 105 First-Semester Hmong
3 cr. Undergraduate.
Beginning Hmong for students with no previous knowledge of the language.
Prerequisites: none.
Course Rules: No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 106 Second-Semester Hmong
3 cr. Undergraduate.
Continuation of Linguis 105.
Prerequisites: Hmong 105/Linguis 105 (P).
Course Rules: No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 199 Independent Study
1-3 cr. Undergraduate.
Prerequisites: 2.0 GPA, consent of instructors, and either Linguis 100 or any Linguis course 200 or above.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 200 Aspects of Language:
3 cr. Undergraduate.
Selected topics involving innovative approaches to the study of language, particularly as related to other disciplines.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 202 Uncommonly Taught Language: Intensive Second Semester:
5-7 cr. Undergraduate.
Continuation of FLL/Linguis 102 (Linguis 133).
Prerequisites: FLL/Linguis 102 (Linguis 133)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 203 Third Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 103 (Linguis 132). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 103 (Linguis 132)(P) in the same language.
Course Rules: May be retaken w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 204 Fourth Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 203 (Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 203 (Linguis 231)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 210 Power of Words
3 cr. Undergraduate.
Dynamic role of language in interpersonal relations, social attitudes and behavior. Topics include: patterns of culture and language, language as identification; prejudice, politics, and advertisement.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 211 Origins of Words
3 cr. Undergraduate.
Vocabulary of English from historical origins to the present; how words and word patterns change over time under influences of both internal and external forces.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 212 Language and Gender
3 cr. Undergraduate.
How patterns of speaking reflect, perpetuate, and create our experience of gender; how gender interacts with race, class, socioeconomic status, age, occupational and social roles.
Prerequisites: none.
Course Rules: Counts as a repeat of Linguis 200 with same topic.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, & may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Polish 213, Russian 213, & Spanish 213.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 289 Internship in Linguistics, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of linguistics in a business, organizational, educational, political, or other appropriate setting.
**Prerequisites:** intro course in Linguis; 2.25 gpa; cons supervising faculty member.
**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
**Prerequisites:** acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/topic chg.
**Last Taught:** Spring 2019, Fall 2018, Spring 2018, Spring 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
**Prerequisites:** none; add'l prereqs may be assigned to specific topic.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Summer 2005, Spring 2002, Spring 1999, Fall 1998.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 303 Fifth Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number.
**Prerequisites:** FLL/Linguis 204(Linguis 232)(P) in same language.
**Course Rules:** May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 304 Sixth Semester of an Uncommonly Taught Language:
3 cr. Undergraduate.
Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number.
**Prerequisites:** FLL/Linguis 303(Linguis 331)(P) in same language.
**Course Rules:** May be retaken w/chg in language. FLL 304 & Linguis 304 are jointly offered; w/same topic, they count as repeats of one another.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 350 Introduction to Linguistics
3 cr. Undergraduate.
Introduction to basic linguistic principles and concepts. Elementary analysis of sentence patterns, sound systems and language change.
**Prerequisites:** jr st or a linguis course.
**General Education Requirements:** SS
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 390 Fundamentals of Linguistic Analysis
3 cr. Undergraduate/Graduate.
Introduction to the systematic analysis of language. Principles and methods of describing phonological and syntactic processes.
**Prerequisites:** jr st & Linguis 350(P) or 400(P).
**Last Taught:** Spring 2016, Spring 1999.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 390G Fundamentals of Linguistic Analysis
3 cr. Undergraduate/Graduate.
Introduction to the systematic analysis of language. Principles and methods of describing phonological and syntactic processes.
**Prerequisites:** jr st & Linguis 350(P) or 400(P).
**Last Taught:** Spring 2016, Spring 1999.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 398 Topics in Linguistics:
1-6 cr. Undergraduate/Graduate.
Topics in any of several recognized areas of linguistics.
**Prerequisites:** jr st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Last Taught:** Spring 2016, Summer 2005.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 398G Topics in Linguistics:
1-6 cr. Undergraduate/Graduate.
Topics in any of several recognized areas of linguistics.
**Prerequisites:** jr st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Last Taught:** Spring 2016, Summer 2005.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 400 Introduction to English Linguistics
3 cr. Undergraduate/Graduate.
Application of linguistic theory and techniques to modern English. Linguis/English 400 required of all English majors and minors in School of Education.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.
**Course Rules:** Jointly-offered with & counts as repeat of English 400.
**Last Taught:** Spring 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 400G Introduction to English Linguistics
3 cr. Undergraduate/Graduate.
Application of linguistic theory and techniques to modern English. Linguis/English 400 required of all English majors and minors in School of Education.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.
**Course Rules:** Jointly-offered with & counts as repeat of English 400.
**Last Taught:** Spring 2018, Fall 2016.
**Current Offerings:** https://catalog.uwm.edu/course-search/

LINGUIS 406 Advanced English Grammar
3 cr. Undergraduate/Graduate.
Application of linguistic theory and techniques to modern English. English 403 with emphasis on the analysis of complex sentences and discourse syntax.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 403(P).
**Course Rules:** English 406 & Linguis 406 are jointly offered; they count as repeats of one another.
**Current Offerings:** https://catalog.uwm.edu/course-search/
LINGUIS 406G Advanced English Grammar
3 cr. Undergraduate/Graduate.
Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 403(P).
Course Rules: English 406 & Linguis 406 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 410 Literacy, Grammar, and Methodologies in ESL Education
3 cr. Undergraduate/Graduate.
Grammatical and other linguistic concepts relevant to ESL education; implications for teaching language, reading and composition. Topics include language acquisition and grammatical problems in language/dialect variation.
Prerequisites: jr st & Linguis 350(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 415 First Language Acquisition
3 cr. Undergraduate/Graduate.
Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.
Prerequisites: jr st & Linguis 350(P), or grad st & cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 415G First Language Acquisition
3 cr. Undergraduate/Graduate.
Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 420 Introduction to Second Language Acquisition
3 cr. Undergraduate/Graduate.
Principles and methods of describing and comparing the structure of two or more languages with emphasis on the implications of this comparison for language learning.
Prerequisites: jr st; Linguis 350(P) or equiv.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 440G Psycholinguistics
3 cr. Undergraduate/Graduate.
A survey of the history, goals, methods, and findings of psycholinguistics. Principal topics: phonetic perception, speech production, syntactic processing, linguistic memory, meaning, and language acquisition.
Prerequisites: jr st; Linguis 350(R) or Psych 101(R); or grad st & cons instr.
General Education Requirements: SS
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 450 General Phonetics and Phonetics Practicum
3 cr. Undergraduate/Graduate.
Study of linguistic phonetics, including articulatory physiology, acoustics, and speech perception. Practice in production and transcription of a wide variety of speech sounds. 3 hrs lec with practicum.
Prerequisites: jr st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 450G General Phonetics and Phonetics Practicum
3 cr. Undergraduate/Graduate.
Study of linguistic phonetics, including articulatory physiology, acoustics, and speech perception. Practice in production and transcription of a wide variety of speech sounds. 3 hrs lec with practicum.
Prerequisites: jr st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 455 Semantics
3 cr. Undergraduate.
The study of meaning in language; its role in grammatical description. Basic concepts used in semantic analysis and discussion of their place in grammatical theory.
Prerequisites: jr st & LINGUIS 350(P) or PHILOS 211(P), cons instr.
Course Rules: Previously LINGUIS 466.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 461 Introduction to Phonology
3 cr. Undergraduate.
Basic properties of sounds, sound patterns, and sound processes of spoken language.
Prerequisites: jr st & LINGUIS 350(P); or cons instr.
Course Rules: Previously LINGUIS 460.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 464 Introduction to Syntax
3 cr. Undergraduate/Graduate.
Study of word and sentence formation in languages. Practice in analysis and argumentation using data from various languages.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 464G Introduction to Syntax
3 cr. Undergraduate/Graduate.
Study of word and sentence formation in languages. Practice in analysis and argumentation using data from various languages.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 468 Language in its Various Forms:
3 cr. Undergraduate/Graduate.
Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 468G Language in its Various Forms:
3 cr. Undergraduate/Graduate.
Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 470 Historical/Comparative Linguistics
3 cr. Undergraduate/Graduate.
The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 470G Historical/Comparative Linguistics
3 cr. Undergraduate/Graduate.
The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 474 Language Typology and Language Universals
3 cr. Undergraduate/Graduate.
Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 474G Language Typology and Language Universals
3 cr. Undergraduate/Graduate.
Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 476 Linguistic Theory
3 cr. Undergraduate/Graduate.
Survey of twentieth century American linguistic theories from traditionalism through American structuralism to generative grammar, including discussion of some current issues.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 476G Linguistic Theory
3 cr. Undergraduate/Graduate.
Survey of twentieth century American linguistic theories from
traditionalism through American structuralism to generative grammar,
including discussion of some current issues.
Prerequisites: jr st & Linguis 350(P), or grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 489 Internship in Linguistics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of linguistics in a business,
organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 490G Field Methods
3 cr. Undergraduate/Graduate.
Work with a native speaker of a foreign language. Gathering and collation
of data. Evaluation of possible phonemic and grammatical analyses.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2014, Fall 1995.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 490 Field Methods
3 cr. Undergraduate/Graduate.
Work with a native speaker of a foreign language. Gathering and collation
of data. Evaluation of possible phonemic and grammatical analyses.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2014, Fall 1995.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add’l semester.
Prerequisites: jr st, add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 520 Advanced Second Language Acquisition:
3 cr. Undergraduate/Graduate.
Readings, discussions, and analyses of current issues in second-
language acquisition theory.
Prerequisites: jr st, Linguis 420(P) or equiv.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 520G Advanced Second Language Acquisition:
3 cr. Undergraduate/Graduate.
Readings, discussions, and analyses of current issues in second-
language acquisition theory.
Prerequisites: jr st, Linguis 420(P) or equiv.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 550 Phonetics II
3 cr. Undergraduate/Graduate.
Auditory phonetics; issues in speech production and speech acoustics;
quantitative study of speech sounds in linguistic contexts; independent
experimental research on topic selected by student.
Prerequisites: jr st; Linguis 450(370)(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 550G Phonetics II
3 cr. Undergraduate/Graduate.
Auditory phonetics; issues in speech production and speech acoustics;
quantitative study of speech sounds in linguistic contexts; independent
experimental research on topic selected by student.
Prerequisites: jr st; Linguis 450(370)(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 555 Advanced Semantics
3 cr. Undergraduate.
Readings, discussion, and analysis of current issues in formal semantics
for natural language.
Prerequisites: junior standing and LINGUIS 466(P) or equivalent.
Course Rules: Previously LINGUIS 566.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 556 Advanced Phonology
3 cr. Undergraduate.
Fundamental issues in generative phonology; emphasis on comparing
alternative models of phonological description.
Prerequisites: junior standing and LINGUIS 460(P).
Course Rules: Previously LINGUIS 560.
Last Taught: Fall 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 564 Advanced Syntax
3 cr. Undergraduate/Graduate.
Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar.
Prerequisites: jr st; Linguis 464(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 564G Advanced Syntax
3 cr. Undergraduate/Graduate.
Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar.
Prerequisites: jr st; Linguis 464(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 565 Introduction to Adult/University Level TESOL
3 cr. Undergraduate/Graduate.
Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: Jointly-offered w/ & counts as repeat of English 565. Does not satisfy requirements in School of Educ.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 565G Introduction to Adult/University Level TESOL
3 cr. Undergraduate/Graduate.
Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: Jointly-offered w/ & counts as repeat of English 565. Does not satisfy requirements in School of Educ.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 567 Materials for ESL Instruction
3 cr. Undergraduate/Graduate.
Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 567 & Linguis 567 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 567G Materials for ESL Instruction
3 cr. Undergraduate/Graduate.
Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 567 & Linguis 567 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 569 Practicum in Adult/University TESOL
3 cr. Undergraduate/Graduate.
A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 569 & Linguis 569 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 569G Practicum in Adult/University TESOL
3 cr. Undergraduate/Graduate.
A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 569 & Linguis 569 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 570 Issues in Bilingualism
3 cr. Undergraduate/Graduate.
Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.
Prerequisites: jr st.
Course Rules: Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 570G Issues in Bilingualism
3 cr. Undergraduate/Graduate.
Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.
Prerequisites: jr st.
Course Rules: Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 590 Morphology
3 cr. Undergraduate/Graduate.
Introduction to morphology, which is the study of word formation in human language.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Course Rules: Counts as repeat of Linguis 763.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 590G Morphology
3 cr. Undergraduate/Graduate.
Introduction to morphology, which is the study of word formation in human language.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Course Rules: Counts as repeat of Linguis 763.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Linguis faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 12 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 708 Proseminar in Linguistics
3 cr. Graduate.
Presents a range of linguistic constructs, demonstrating through readings, problems, and exercises how these concepts can be used in the analysis of language.
Prerequisites: grad st.
Course Rules: Linguis 708(701) & MALLT 708 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 715 First Language Acquisition
3 cr. Graduate.
Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.
Prerequisites: graduate standing.
Course Rules: No credit for students with graduate credit in LINGUIS 415.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 720 Introduction to Second Language Acquisition
3 cr. Graduate.
Introduction to theories of second language acquisition.
Prerequisites: grad st.
Course Rules: Previously LINGUIS 766.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 748 Oral Language, Cognition, and Literacy
3 cr. Graduate.
Psychological and linguistic bases of speaking, reading, and writing in children and adults from diverse populations. The importance of language and cognition for literacy development.
Prerequisites: grad st; college-level course in language acquisition or reading or child development or linguistics or cons instr.
Course Rules: Ed Psych 748 & Linguis 748 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 750 General Phonetics and Phonetics Practicum
3 cr. Graduate.
Introduction to phonetics, the basics of speech production and speech acoustics.
Prerequisites: grad st.
Course Rules: Not open for cr to students w/grad cr in LINGUIS 450.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 755 Semantics
3 cr. Graduate.
The study of meaning in language; its role in grammatical description. Basic concepts used in semantic analysis and discussion of their place in grammatical theory.
Prerequisites: graduate standing.
Course Rules: No credit for students with graduate credit in LINGUIS 455.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 760 Research Methods in Linguistics and ESL
3 cr. Graduate.
Introduction to basic research methodology in linguistics and ESL.
Prerequisites: grad st; cons instr.
Course Rules: English 760 & Linguis 760 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 761 Introduction to Phonology
3 cr. Graduate.
Introduction to the basic properties of sounds, sound patterns, and sound processes of spoken language.
Prerequisites: grad st; Linguis 350(P) or equiv.
Course Rules: Counts as repeat of LINGUIS 460.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 763 Morphology
3 cr. Graduate.
A graduate-level introduction to morphological theory.
Prerequisites: grad st; Linguis 350(P) or equiv.
Last Taught: Fall 2019, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 764 Introduction to Syntax
3 cr. Graduate.
Investigation of the syntax or sentence structure properties of human language.
Prerequisites: grad st.
Course Rules: Not open for cr to students w/grad cr in LINGUIS 464.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 765 Pragmatics
3 cr. Graduate.
Investigation of selected topics in the relationship between linguistic expressions and those who use them.
Prerequisites: grad st; Linguis 466(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 767 Methodologies and Approaches in Adult/University TESOL
3 cr. Graduate.
Designed for prospective ESL/EFL teachers. Graduate level introduction to the field of adult TESOL.
Prerequisites: grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 768 Language in its Various Forms
3 cr. Graduate.
Analysis and description of various language types. Topics may include
language change, language development, dialectology, and language
typology.
Prerequisites: graduate standing.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 769 Topics in Linguistics:
3 cr. Graduate.
Advanced-level study of a topic relevant to linguistics; may be
contemporary or historical.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 769 & Linguis
769 are jointly offered; w/same topic, they count as repeats of one
another w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 770 Historical and Comparative Linguistics
3 cr. Graduate.
The study of phonological and morphological change by studying the
process of internal reconstruction, the comparative method, and the
historical processes of analogical, grammatical, and semantic change in
languages.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 774 Language Typology and Universals
3 cr. Graduate.
Comparison of phonetic, syntactic, and lexical patterns of different
languages, with emphasis on deriving statements about properties of all
languages or of significant subclasses of languages.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 789 Practicum in Teaching ESL to Adult Learners
1-6 cr. Graduate.
Field experience in teaching English as a second language to adult
learners.
Prerequisites: grad st; English/Linguis 567(P) or Linguis 767(P); cons
instr.
Course Rules: Open only to grad students in Linguis specializing in ESL.
Retakable to max 6 cr. English 789 & Linguis 789 are jointly offered; they
count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 798 Internship in Linguistics
1-3 cr. Graduate.
Application of advanced principles of linguistics in an internship
experience in a business, organizational, educational, political,
governmental or other appropriate setting.
Prerequisites: grad st.
Course Rules: One cr earned for academic work based on minimum 40
hrs in internship. Paper or project req’d.
Last Taught: Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 799 Independent Reading and Research for Master's Students
1-3 cr. Graduate.
Independent reading and/or research under the supervision of a
Linguistics faculty member on a linguistics topic relating to the student’s
area of interest.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 801 Seminar in Syntax and Semantics:
3 cr. Graduate.
Advanced topics in the theory of syntax, including but not limited to,
syntactic description, variation, and typology.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 802 Seminar in Phonology and Phonetics:
3 cr. Graduate.
Advanced topics in phonological theory, including, but not limited to,
phonological description, variation, and typology.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 803 Seminar in Language Acquisition:
3 cr. Graduate.
Theory of adult language acquisition, including, but not limited to,
interpretation of learner errors, description of acquisition strategies, and
analysis of learning sequences.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 804 Seminar in Language Variation:
3 cr. Graduate.
Advanced topics in social dialects, including, but not limited to, language
variation, social markers, and the concept of a standard language.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 805 Seminar in English Language:
3 cr. Graduate.
Advanced-level seminar addressing specific topics in English language,
both contemporary and historical.
Prerequisites: grad st; English/Linguis 400(P).
Course Rules: Retakable w/chg in topic to 9 cr max. English 805 & Linguis
805 are jointly offered; w/same topic, they count as repeats of one
another.
Current Offerings: https://catalog.uwm.edu/course-search/
LINGUIS 806 Seminar in Linguistics:
3 cr. Graduate.
Advanced-level seminar in which students do in-depth research on a particular area of linguistics through readings, class discussion, and writing a research paper.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 806 & Linguistics 806 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2019, Fall 2014, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 850 Advanced Phonetics
3 cr. Graduate.
Auditory phonetics; issues in speech production and speech acoustics; quantitative study of speech sounds in linguistic contexts; independent experimental research on topic selected by student.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 855 Advanced Semantics
3 cr. Graduate.
Readings, discussion, and analysis of current issues in formal semantics for natural language.
Prerequisites: graduate standing.
Course Rules: No credit for students with graduate credit in LINGUIS 555.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 861 Advanced Phonology
3 cr. Graduate.
Fundamental issues in generative phonology; emphasis on comparing alternative models of phonological description.
Prerequisites: graduate standing.
Course Rules: No credit for students with graduate credit in LINGUIS 561.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 864 Advanced Syntax
3 cr. Graduate.
Emphasis on the evaluation and justification of competing solutions and competing models of grammar/syntax.
Prerequisites: graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 888 Candidate for Degree
0 cr. Graduate.
Available for students who must meet minimum credit requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 10 cr max. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 990 Research in Linguistics
1-3 cr. Graduate.
Research and writing of the doctoral dissertation under the supervision of the major professor.
Prerequisites: grad st
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

LINGUIS 999 Independent Reading for Doctoral Students
1-3 cr. Graduate.
Individual work directed by a member of the graduate faculty; for doctoral students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

M.A. in Language, Literature, and Translation (MALLT)

MALLT 700 Language Teaching Methods
3 cr. Graduate.
Introduction to practical issues of language instruction for new teaching assistants and language teachers; explores some theoretical issues related to second- and foreign language learning.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 703 Seminar in Language and Communication:
3 cr. Graduate.
Survey of basic theories on the nature of language and of the modes of verbal communication, with emphasis on the socio-cultural aspects.
Prerequisites: grad st; proficiency in a language other than English
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 704 Seminar in Cultural Studies:
3 cr. Graduate.
Investigation of cultural phenomena in their socio-historical contexts in their symbolization in folklore, literature, and art. Specific topics and any additional prerequisites announced in the Schedule of Classes each time course is offered.
Prerequisites: grad st
Course Rules: CompLit 704 & MALLT 704 are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 706 Seminar in Foreign Language Methodology and Pedagogy
3 cr. Graduate.
Nature and direction of recent developments in foreign language methodology and instructional principles.
Prerequisites: grad st
Last Taught: Spring 2013, Spring 2010, Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 707 Seminar in Methods of Literary Analysis:
3 cr. Graduate.
Two or more theoretical and methodological approaches to literature, with application to selected literary texts. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st
Course Rules: CompLit 707 & MALLT 707(701) are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
MALLT 708 Proseminar in Linguistics
3 cr. Graduate.
Present a range of linguistic constructs, demonstrating through readings, problems, and exercises how these concepts can be used in the analysis of language.
Prerequisites: grad st.
Course Rules: Linguis 708(701) & MALLT 708 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 709 Seminar in Literary and Cultural Translation
3 cr. Graduate.
Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.
Prerequisites: grad st.
Course Rules: MALLT 709 & Trnsltn 709 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 712 Bibliographic and Research Methodology in Foreign Language and Literature
3 cr. Graduate.
Discussion of types of research in languages and literatures, bibliographic resources and sources of research support.
Prerequisites: grad st
Last Taught: Spring 2010, Fall 1999, Fall 1998, Fall 1996.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 721 The Old Testament in Literature and the Arts
3 cr. Graduate.
The impact of the Old Testament on literature and the arts; its influence on major subsequent religious classics and through them on music, philosophy, and the visual arts.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 728 Literary Translation
3 cr. Graduate.
Seminar in literary translation focusing on various genres including prose, poetry, essays, and theater; publication and copyright matters.
Prerequisites: grad st; admission to Translation Program.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 740 Approaches to the Modern I
3 cr. Graduate.
Seminar on the major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.
Prerequisites: grad st.
Course Rules: English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Fall 2013, Fall 2011, Fall 1991.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 741 Approaches to the Modern II
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.
Prerequisites: grad st.
Course Rules: English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Spring 2013, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 781 Graduate Study Abroad: Language and Culture:
1-3 cr. Graduate.
Coursework in a foreign language or culture taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.
Prerequisites: grad st; cons MALLT coord comm chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 782 Graduate Study Abroad: Pre-1900 Literature:
1-3 cr. Graduate.
Coursework in pre-1900 literature taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.
Prerequisites: grad st; cons MALLT coord comm chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 783 Graduate Study Abroad: Post-1900 Literature:
1-3 cr. Graduate.
Coursework in post-1900 literature taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.
Prerequisites: grad st; cons MALLT coord comm chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 790 Thesis
1-6 cr. Graduate.
Independent study and research on a master's thesis under supervision of the student's advisory committee.
Prerequisites: grad st; cons advisory committee.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2020, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 791 Reading and Research - Greek or Latin
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Fall 2016, Spring 2014, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
MALLT 792 Reading and Research - Comparative Literature
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Spring 2017, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 793 Reading and Research - French or Italian
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 794 Reading and Research - German
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 795 Reading and Research - Hebrew or Arabic
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Fall 2010, Fall 2009, Summer 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 796 Reading and Research - Language
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 797 Reading and Research - Polish or Russian or Serbo-Croatian
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 798 Reading and Research - Spanish or Portuguese
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 799 Reading and Research
1-3 cr. Graduate.
Directed reading and research on a topic selected by the student in consultation with his/her advisory committee.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MALLT 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

Materials Science and Engineering (MATLENG)

MATLENG 150 It's a Material World: The Role of Materials in Society
3 cr. Undergraduate.
Introductory course on the nature of materials and their role in the development of society. Historical perspectives, current societal issues, and future trends are discussed.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 201 Engineering Materials
4 cr. Undergraduate.
Basic behavior and processing of engineering materials emphasizing metals and alloys and including ceramics and plastics. Laboratory work is included.
Prerequisites: Math 231(C), score of 1 on chem placement test or min grade C in Chem 100(P)
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 299 Topics in Materials:
1-3 cr. Undergraduate.
Work on new material in materials. Section title and credits announced whenever course is offered.
Prerequisites: specific courses dependent on topic.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 316 Thermodynamics of Materials
3 cr. Undergraduate.
Chemical thermodynamics and application of thermodynamics to single and multi-component materials systems. Topics include heat and mass balance, enthalpy, entropy, free energy, reaction equilibria, behavior of solutions; phase diagrams.
Prerequisites: MATH 233(P), PHYSICS 209(P) or PHYSICS 219(P), MATLENG 201(P) and CHEM 104(P) or CHEM 105(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MATLENG 316G Thermodynamics of Materials
3 cr. Undergraduate.
Chemical thermodynamics and application of thermodynamics to single and multi-component materials systems. Topics include heat and mass balance, enthalpy, entropy, free energy, reaction equilibria, behavior of solutions; phase diagrams. 
Prerequisites: MATH 233(P), PHYSICS 209(P) or PHYSICS 219(P), MATLENG 201(P) and CHEM 104(P) OR CHEM 105(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 330 Materials and Processes in Manufacturing
3 cr. Undergraduate.
Principles and practice of manufacturing processes for engineering materials. Processes include casting, forging, rolling, extrusion, sintering and machining. Laboratory work is included. 
Prerequisites: MatlEng 201(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 380 Engineering Basis for Materials Selection
3 cr. Undergraduate.
The study of the basis for materials selection in the design of engineering systems. Materials design parameters, classes of materials case studies in material's selections. 
Prerequisites: MatlEng 201(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 385 Introduction to Biomaterials
3 cr. Undergraduate.
Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies. 
Prerequisites: jr st, MatlEng 201(P).
Course Rules: Jointly offered with & counts as repeat of BME 385.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 402 Physical Metallurgy
3 cr. Undergraduate/Graduate.
Crystal binding and electron theory of solids, phase diagrams, diffusion, nucleation and growth, recrystallization, precipitation hardening, solidification, austenite decomposition. 
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 402G Physical Metallurgy
3 cr. Undergraduate/Graduate.
Crystal binding and electron theory of solids, phase diagrams, diffusion, nucleation and growth, recrystallization, precipitation hardening, solidification, austenite decomposition. 
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 404 Structural Materials
3 cr. Undergraduate/Graduate.
A study of the basis for materials selection in the design of engineering systems. Materials design parameters, classes of materials case studies in material's selections. 
Prerequisites: jr st, MatlEng 201(P); & ElecEng 234(P) or Math 234(P); or grad st; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 410 Mechanical Behavior of Materials
3 cr. Undergraduate/Graduate.
An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep. 
Prerequisites: jr st; MatEng 201(P); or grad st; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 410G Mechanical Behavior of Materials
3 cr. Undergraduate/Graduate.
An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep. 
Prerequisites: jr st; MatEng 201(P); or grad st; or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 411 Materials Laboratory
3 cr. Undergraduate.
Experiments demonstrating the basic laws governing the processing, structure, and properties of materials. 
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 431G Welding Engineering
3 cr. Undergraduate/Graduate.
An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations. 
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Spring 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 431 Welding Engineering
3 cr. Undergraduate/Graduate.
An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations. 
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Spring 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 443 Transport Phenomena in Materials Processing
3 cr. Undergraduate/Graduate.
A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing. 
Prerequisites: jr st, MatEng 442(P), & ElecEng 234(P) or Math 234(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 443G Transport Phenomena in Materials Processing
3 cr. Undergraduate/Graduate.
A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing. 
Prerequisites: jr st, MatEng 442(P), & ElecEng 234(P) or Math 234(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATLENG 452 Ceramic Materials
3 cr. Undergraduate/Graduate.
Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering.
Prerequisites: jr st; MatlEng 201(P); or grad st.
Course Rules: Not open for cr to students with cr in MatlEng 451(ER).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 452G Ceramic Materials
3 cr. Undergraduate/Graduate.
Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering.
Prerequisites: jr st, MatlEng 201(P); or grad st.
Course Rules: Not open for cr to students with cr in MatlEng 451(ER).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 453 Polymeric Materials
3 cr. Undergraduate/Graduate.
Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers.
Prerequisites: jr st, MatlEng 201(P); or grad st.
Course Rules: Not open for cr to students with cr in MatlEng 451(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 453G Polymeric Materials
3 cr. Undergraduate/Graduate.
Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers.
Prerequisites: jr st, MatlEng 201(P); or grad st.
Course Rules: Not open for cr to students with cr in MatlEng 451(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 456 Metal Casting Engineering
3 cr. Undergraduate/Graduate.
Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 456(421) and MechEng 456 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 456G Metal Casting Engineering
3 cr. Undergraduate/Graduate.
Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 456(421) and MechEng 456 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 457 Engineering Composites
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 457(455) & MechEng 457 are jointly offered; they count as repeats of each other.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 457G Engineering Composites
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 457(455) & MechEng 457 are jointly offered; they count as repeats of each other.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 460 Nanomaterials and Nanomanufacturing
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 460 & MechEng 460 are jointly offered; they count as repeats of each other.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 460G Nanomaterials and Nanomanufacturing
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 460 & MechEng 460 are jointly offered; they count as repeats of each other.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATLENG 461 Environmental Degradation of Materials  
3 cr. Undergraduate/Graduate. 
Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies. 
Prerequisites: jr st; MatlEng 201(P). 
Last Taught: Fall 2019. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 461G Environmental Degradation of Materials  
3 cr. Undergraduate/Graduate. 
Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies. 
Prerequisites: jr st; MatlEng 201(P). 
Last Taught: Fall 2019. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 465 Friction and Wear  
3 cr. Undergraduate/Graduate. 
Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement. 
Prerequisites: jr st; MatlEng 201(P). 
Course Rules: Not open to students who have cr in MechEng 465, which is identical to MatlEng 465. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 465G Friction and Wear  
3 cr. Undergraduate/Graduate. 
Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement. 
Prerequisites: jr st; MatlEng 201(P). 
Course Rules: Not open to students who have cr in MechEng 465, which is identical to MatlEng 465. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 471 Heat Treatment of Materials  
3 cr. Undergraduate/Graduate. 
Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered. 
Prerequisites: jr st; MatlEng 201(P). 
Last Taught: Spring 2019, Fall 2017. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 471G Heat Treatment of Materials  
3 cr. Undergraduate/Graduate. 
Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered. 
Prerequisites: jr st; MatlEng 201(P). 
Last Taught: Spring 2019, Fall 2017. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 481 Electronic Materials  
3 cr. Undergraduate/Graduate. 
Prerequisites: jr st; MatlEng 201(P) or cons instr. 
Course Rules: MatlEng 481 and ElecEng 481 are jointly offered; they count as repeats of one another. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 481G Electronic Materials  
3 cr. Undergraduate/Graduate. 
Prerequisites: jr st; MatlEng 201(P) or cons instr. 
Course Rules: MatlEng 481 and ElecEng 481 are jointly offered; they count as repeats of one another. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 483 Materials for Energy Systems  
3 cr. Undergraduate/Graduate. 
Processing, structure, and properties of materials used in energy systems. Focus on materials applied to solid oxide fuel cells, photovoltaics, and advanced secondary batteries. 
Prerequisites: jr st, MatlEng 201(P). 
Last Taught: Fall 2019. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 483G Materials for Energy Systems  
3 cr. Undergraduate/Graduate. 
Processing, structure, and properties of materials used in energy systems. Focus on materials applied to solid oxide fuel cells, photovoltaics, and advanced secondary batteries. 
Prerequisites: jr st, MatlEng 201(P). 
Last Taught: Fall 2019. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 490 Senior Design Projects I  
1 cr. Undergraduate. 
Project identification and planning; proposals, project management, ethics, professional responsibilities, standards and team procedures. Written and oral engineering reports and proposals. For first semester seniors. 
Prerequisites: sr st; MatlEng 411(C). 
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/ 

MATLENG 491 Senior Design Projects II  
3 cr. Undergraduate. 
Independent and team design projects under the direction of a faculty member. Written and oral engineering reports must be submitted on each design project undertaken. 
Prerequisites: MatlEng 490(P). 
Current Offerings: https://catalog.uwm.edu/course-search/
MATLENG 511 Advanced Materials Characterization
3 cr. Undergraduate/Graduate.
Theory and operation of advanced materials characterization instrumentation including thermal analysis (TGA, DSC, DMA), XRD, SEM/EDS, FTIR/Raman, 3D confocal microscopy. Prereq: jr st & MatlEng 411(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 511G Advanced Materials Characterization
3 cr. Undergraduate/Graduate.
Theory and operation of advanced materials characterization instrumentation including thermal analysis (TGA, DSC, DMA), XRD, SEM/EDS, FTIR/Raman, 3D confocal microscopy. Prereq: jr st & MatlEng 411(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 585 Advanced Biomaterials
3 cr. Undergraduate/Graduate.
Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.
Prerequisites: sr st; MatlEng 385(P) or BME 385(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of BME 585.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 585G Advanced Biomaterials
3 cr. Undergraduate/Graduate.
Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.
Prerequisites: sr st; MatlEng 385(P) or BME 385(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of BME 585.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 690 Topics in Materials:
3 cr. Undergraduate/Graduate.
Lectures on special topics in materials engineering and science.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 690G Topics in Materials:
3 cr. Undergraduate/Graduate.
Lectures on special topics in materials engineering and science.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr applied toward undergraduate degree.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 699G Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr applied toward undergraduate degree.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 701 Properties of Solids
3 cr. Graduate.
The applications of physics to the understanding of the properties of solids, including lattice mechanics, band theory, electrical, thermal, magnetic, and defect properties.
Prerequisites: MatlEng 402(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 702 Advanced Materials Thermodynamics
3 cr. Graduate.
Thermodynamics of materials including solutions, mixtures, and interfaces. Topics including statistical interpretation of entropy, chemical reactions, Ellingham diagrams, phase diagrams, and intermediate phases.
Prerequisites: grad st; MatlEng 442(P)
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 710 Advanced Mechanical Behavior of Materials
3 cr. Graduate.
Advanced topics on the mechanical properties of materials including plasticity, anelasticity, fracture, creep, fatigue, and the effects of temperature, rates, and processing history.
Prerequisites: grad st; MatlEng 410(P).
Last Taught: Spring 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 720 Kinetic Processes in Materials
3 cr. Graduate.
Absolute reaction rate theory, defects in materials, diffusion, phase transformation in metals.
Prerequisites: grad st; MatlEng 442(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 731 Deformation Processing
3 cr. Graduate.
Application of engineering principles to shape generation by deformation processing. Analysis of forging, stamping, drawing. Effect of deformation material properties and behavior.
Prerequisites: grad st; MatlEng 410(P).
Last Taught: Fall 2019, Fall 2017, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/
MATLENG 732 Solidification Processing
3 cr. Graduate.
Solidification phenomena and its engineering application to metals, semiconductors, ceramics, properties of cast products. Foundry processes.
Prerequisites: grad st; MatlEng 330(P).
Course Rules: MatlEng 732 and MechEng 732 are jointly offered; they count as repeats of each other.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 740 Heterogeneous Equilibria
3 cr. Graduate.
Quantitative description of heterogeneous equilibria for unary, binary, and ternary systems from the thermodynamic point of view; composite systems and current experimental techniques in high temperature materials.
Prerequisites: grad st; MechEng 301(P); MatlEng 201(P).
Last Taught: Fall 2013, Fall 2011, Fall 2009, Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 750 Thin Solid Films
3 cr. Graduate.
Application of materials science to thin films. Nucleation, growth, and characterization. Discussion of optical, electrical, and mechanical behavior in terms of atomic order and chemistry. Consideration of specific deposition methods and applications.
Prerequisites: grad st; MatlEng 201(P) & Physics 210(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 760 Surface Analysis of Solids
3 cr. Graduate.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, Ind Eng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 890 Advanced Topics in Materials:
3 cr. Graduate.
Lectures on special topics in materials engineering and science.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Fall 2018, Fall 2015, Spring 2011, Fall 1987.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MATLENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Current Offerings: https://catalog.uwm.edu/course-search/

Mathematical Sciences (MATH)

MATH 75 Math Success Strategies
0 cr. Undergraduate.
Highly interactive format providing mathematics instruction and instilling study skills and strategies for succeeding in mathematics courses.
Prerequisites: none.
Course Rules: Fee for variable credit assessed (1-6) depending on contact hours; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 90 Basic Mathematics
0 cr. Undergraduate.
Arithmetic operations involving whole numbers, integers, positive and negative rational numbers; decimals, percents; ratio, proportion; radicals; descriptive statistics; units of measure; geometry; introduction to algebra.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Not open to students eligible for math courses that carry graduation credit.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 92 Mathematical Literacy for College Students I
0 cr. Undergraduate.
Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; counts as 3 cr toward cr load for Financial Aid & enrollment verification. Not recommended for students planning to take Calculus or Chem 100.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 94 Foundations of Elementary Mathematics
0 cr. Undergraduate.
Arithmetic, geometry, and beginning algebra; develops mathematical reasoning, problem solving, and facility with basic mathematical objects and their relationships. Individualized instruction via adaptive learning software.
Prerequisites: none.
Course Rules: Fee for 6 cr assessed; counts as 6 cr toward cr load for Financial Aid and enrollment verification only. Math 94 counts as repeat of Math 90 & 95.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 95 Essentials of Algebra
0 cr. Undergraduate.
Number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, rational expressions; coordinate geometry; linear systems; quadratic equations.
Prerequisites: Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in MATH 90 or MATH 102; or (c) grade of D in MATH 94.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 98 Algebraic Literacy I
0 cr. Undergraduate.
Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations.
Prerequisites: Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in MATH 90 or MATH 102; or (c) grade of D in MATH 94.
Course Rules: Fee for 3 cr assessed; counts as 3 cr toward credit load for Financial Aid & enrollment verification only.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 102 Mathematical Literacy for College Students II
3 cr. Undergraduate.
Continuation of Math 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.
Prerequisites: Grade of C or better in Math 92(P).
General Education Requirements: MTH
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 103 Contemporary Applications of Mathematics
3 cr. Undergraduate.
Selected topics in applied mathematics and statistics, such as, but not limited to, voting theory, fair division, apportionment, graph theory, financial mathematics, and statistical inference.
Prerequisites: ACT math subscore of 18 or higher or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) Grade of C or better in MATH 90 or MATH 102; (c) grade of D in MATH 94; (d) ACT math subscore of 18 or higher; (e) both of ACT-math subscore of 16 or higher and 3.5 units HS math; (f) SAT-math subscore of 490 or higher; or (g) both of SAT-math subscore of 420 or higher and 3.5 units of HS math.
Course Rules: Not recommended for students planning to take Calculus or CHEM 100.
General Education Requirements: MTH
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 105 Introduction to College Algebra
3 cr. Undergraduate.
Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations.
Prerequisites: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, or 098; or (c) ACT math subscore of 24 or higher.
Course Rules: Counts as repeat of MATH 108.
General Education Requirements: MTH
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 108 Algebraic Literacy II
3 cr. Undergraduate.
Continuation of MATH 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations.
Prerequisites: C or better MATH 98.
Course Rules: Counts as repeat of MATH 105.
General Education Requirements: MTH
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 111 Introduction to Logic - Critical Reasoning
3 cr. Undergraduate.
Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.
Prerequisites: ACT math subscore of 18 or higher, or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in MATH 90 or MATH 102; or (c) grade of D in MATH 94.
Course Rules: PHILOS 111 and MATH 111 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 115 Precalculus
4 cr. Undergraduate.
Essential topics from college algebra and trigonometry for students intending to enroll in calculus.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in MATH 105, MATH 108, or MATH 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: Repeats 2 cr of MATH 116 & 2 cr of MATH 117.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 116 College Algebra
3 cr. Undergraduate.
Prerequisites: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in MATH 94, MATH 95, or MATH 98; (c) ACT math subscore of 24 or higher.
Course Rules: 2 cr may be used to repeat 2 cr of MATH 115.
General Education Requirements: MTH
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 117 Trigonometry
2 cr. Undergraduate.
Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in MATH 105, MATH 108, or MATH 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: Repeats 2 cr of MATH 115.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 175 Mathematical Explorations for Elementary Teachers I
3 cr. Undergraduate.
Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies.
Prerequisites: Registration in elementary, early childhood, or exceptional educ curriculum; either a grade of C or better in MATH 102 or MATH 103, or Math Placement Level at least 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in MATH 94, MATH 95, or MATH 98; (c) ACT math subscore of 24 or higher.
General Education Requirements: MTH
Last Taught: Spring 2020, Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 176 Mathematical Explorations for Elementary Teachers II
3 cr. Undergraduate.
A continuation of MATH 175 in geometry, statistics, and probability.
Prerequisites: grade of C or better in MATH 175(P).
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 194 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 199 Independent Study
1-3 cr. Undergraduate.
Regularly offered courses may not be taken as Independent Study.
Prerequisites: 2.0 GPA in all previous math courses; consent of instructor, department chair and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 205 Introductory Finite Mathematics
3 cr. Undergraduate.
Elementary deterministic and probabilistic discrete mathematics and applications to a wide variety of disciplines. Topics may include linear programming, Markov chains, optimization, stochastic processes.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in MATH 105, MATH 108, or MATH 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
General Education Requirements: NS, QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 208 Quantitative Models for Business
4 cr. Undergraduate.
Applications of algebra, functions, and optimization methods in business and economics settings.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35 or 36 on Math Placement Test; (b) grade of C or better in MATH 105, MATH 108, or MATH 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 211 Survey in Calculus and Analytic Geometry
4 cr. Undergraduate.
A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35 or 36 on Math Placement Test; (b) grade of C or better in MATH 105, MATH 108, or MATH 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: May not be used as a prereq for MATH 232. No cr for students with cr in MATH 213, MATH 221, or MATH 231.
General Education Requirements: NS, QLB
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 213 Calculus with Life Sciences Applications
4 cr. Undergraduate.
Limits, derivatives, graphing. Antiderivatives, the definite integral, and the fundamental theorem of calculus. Additional techniques and applications pertinent to the life sciences throughout the course.
Prerequisites: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in MATH 115; (c) grade of C or better in both MATH 116 and MATH 117; (d) grade of C or better in both MATH 211 and MATH 117; (e) grade of C or better in MATH 116 and Level 36 or 26 on Math Placement Test; (f) grade of C or better in both MATH 211 and Level 36 or 26 on Math Placement Test; (g) grade of C or better in both MATH 211 and Level 35 on Math Placement Test; or (h) score of 61 or higher on the CLEP Precalculus Exam.
Course Rules: No credit for students with credit in MATH 213.
General Education Requirements: NS, QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 221 Honors Calculus I
5 cr. Undergraduate.
Calculus of functions of one and several variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; applications.
Prerequisites: cons instr or Honors College Director; Math Placement Level 45, earned by any of: (a) Level 45 Math Placement Test; (b) Level 40 Math Placement Test & ACT math subscore 30 or higher; (c) score of 4 or 5 on AP AB calculus exam; (d) score of 3 or higher on AP BC calculus exam; (e) score of 5 or higher on IB Mathematics HL; (f) grade of A- or better in Math 116 & 117; (g) grade of A- or better in Math 115.
Course Rules: Max 6 cr in combination of Math 221 & 222 may count toward Honors College requirements.
General Education Requirements: NS, QLB
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 222 Honors Calculus II
5 cr. Undergraduate.
Continuation of Math 221.
Prerequisites: C or better in Math 221(P) or B or better in Math 232(P); cons instr.
Course Rules: Max of 6 cr in combination of Math 221 & 222 may count toward Honors College reqs.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 231 Calculus and Analytic Geometry I
4 cr. Undergraduate.
Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications.
Prerequisites: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in MATH 115; (c) grade of C or better in both MATH 116 and MATH 117; (d) grade of C or better in both MATH 211 and MATH 117; (e) grade of C or better in MATH 116 and Level 36 or 26 on Math Placement Test; (f) grade of C or better in MATH 211 and Level 36 or 26 on Math Placement Test; (g) grade of C or better in MATH 116 and Level 35 on Math Placement Test; or (h) score of 61 or higher on the CLEP Precalculus Exam.
Course Rules: No credit for students with credit in MATH 213.
General Education Requirements: NS, QLB
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 232 Calculus and Analytic Geometry II
4 cr. Undergraduate.
Continuation of Math 231. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.
Prerequisites: grade of C or better in Math 231(P) or grade of B or better in Math 213(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 233 Calculus and Analytic Geometry III
4 cr. Undergraduate.
Continuation of Math 221. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications.
Prerequisites: grade of C or better in MATH 232(P).
Course Rules: Counts as repeat of MATH 229.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 234 Linear Algebra and Differential Equations
4 cr. Undergraduate.
Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications.
Prerequisites: grade of C or better in Math 232(P).
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 240 Matrices and Applications
3 cr. Undergraduate.
Vector spaces, systems of linear equations, matrices, determinants, linear transformations, eigenvalues, eigenvectors; selected topics in applications. Emphasizes basic concepts and concrete examples.
Prerequisites: a grade at least C in a MATH or MTHSTAT course numbered 200 or higher, or Math Placement Level 40, earned by any of: Level 40 Math Placement Test; grade at least C in MATH 115; grade at least C in MATH 116 and MATH 117; grade at least C in MATH 211 and MATH 117; grade at least C in MATH 116 & Level 36 or 26 Math Placement Test; grade at least C in MATH 211 & Level 36 or 26 Math Placement Test; grade at least C in MATH 117 & Level 35 Math Placement Test; at least 61 on CLEP Precalculus exam.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 275 Problem Solving/Critical Thinking for Elementary Education Majors
3 cr. Undergraduate.
Course provides a strong foundation in the exploration, teaching and communication (oral and written) of mathematical concepts via problem-solving experiences and discussion.
Prerequisites: grade of C or better in Math 175(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 276 Algebraic Structures for Elementary Education Majors
3 cr. Undergraduate.
Topics for K-8 teachers. Basic patterns and rules that govern number systems, geometric transformations, and manipulation of algebraic expressions.
Prerequisites: grade of C or better in Math 175(P) or cons instr.
Course Rules: Counts as repeat of Math 299 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 277 Geometry for Elementary Education Majors
3 cr. Undergraduate.
Topics for K-8 teachers. Geometry as measuring tool-congruence, similarity, area, volume, and coordinates; geometry as axiomatic system-definitions, conjectures, proofs, counterexamples; rigid motions, symmetry.
Prerequisites: grade of C or better in Math 176(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 278 Discrete Probability and Statistics for Elementary Education Majors
3 cr. Undergraduate.
Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference.
Prerequisites: grade of C or better in Math 176(P) or cons instr.
Course Rules: Math 278 and MthStat 278 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 290 Topics in Mathematics:
3 cr. Undergraduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: satisfaction of Quantitative Literacy Part A GER.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2019, Fall 2018, Fall 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 305 Introduction to Mathematical and Computational Modeling
3 cr. Undergraduate/Graduate.
Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature.
Prerequisites: jr st; grade of C or better in Math 211(P) & one addl 200-level or higher Math or MthStat course, or grade of B or better in Math 213(P), or grade of C or better in Math 231(P), or cons instr.
Course Rules: Counts as repeat of Math 690(675) w/topic Adv Math Models with Apps.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 305G Introduction to Mathematical and Computational Modeling
3 cr. Undergraduate/Graduate.
Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature.
Prerequisites: jr st; grade of C or better in Math 211(P) & one addl 200-level or higher Math or MthStat course, or grade of B or better in Math 213(P), or grade of C or better in Math 231(P), or cons instr.
Course Rules: Counts as repeat of Math 690(675) w/topic Adv Math Models with Apps.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 313 Linear Programming and Optimization
3 cr. Undergraduate/Graduate.
Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization.
Prerequisites: jr st; grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 313G Linear Programming and Optimization
3 cr. Undergraduate/Graduate.
Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization.
Prerequisites: jr st; grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 315 Mathematical Programming and Optimization
3 cr. Undergraduate/Graduate.
Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming.
Prerequisites: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 315G Mathematical Programming and Optimization
3 cr. Undergraduate/Graduate.
Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming.
Prerequisites: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 318 Topics in Discrete Mathematics
3 cr. Undergraduate.
Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques.
Prerequisites: a grade of C or better in CompSci 317(P) or Math 341(P).
Course Rules: Jointly offered with & count as repeat of CompSci 318.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 320 Introduction to Differential Equations
3 cr. Undergraduate/Graduate.
Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications.
Prerequisites: jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.
Course Rules: No grad cr in Math Sci.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 320G Introduction to Differential Equations
3 cr. Undergraduate/Graduate.
Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications.
Prerequisites: jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.
Course Rules: No grad cr in Math Sci.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 321 Vector Analysis
3 cr. Undergraduate/Graduate.
Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus.
Prerequisites: jr st, grade of C or better in Math 233(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 321G Vector Analysis
3 cr. Undergraduate/Graduate.
Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus.
Prerequisites: jr st, grade of C or better in Math 233(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 322 Introduction to Partial Differential Equations
3 cr. Undergraduate/Graduate.
Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials.
Prerequisites: jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 322G Introduction to Partial Differential Equations
3 cr. Undergraduate/Graduate.
Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials.
Prerequisites: jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 341 Seminar: Introduction to the Language and Practice of Mathematics
3 cr. Undergraduate.
Facility with mathematical language and method of conjecture, proof and counter example, with emphasis on proofs. Topics: logic, sets, functions and others.
Prerequisites: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in MATH 115; (c) grade of C or better in both MATH 116 and MATH 117; (d) grade of C or better in both MATH 211 and MATH 117; (e) grade of C or better in MATH 116 and Level 36 or 26 on Math Placement Test; (f) grade of C or better in MATH 211 and Level 36 or 26 on Math Placement Test; (g) grade of C or better in MATH 117 and Level 35 on Math Placement Test; or (h) score of 61 or higher on the CLEP Precalculus Exam.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 345 Mathematics from a Historical Perspective
3 cr. Undergraduate.
Topics from the development of mathematics, such as famous problems, mathematicians, calculating devices; chronological outlines. Significant reading and writing assignments.
Prerequisites: Grade of C or better in Math 232(P); satisfaction of OWC-A.
Course Rules: May be retaken w/chg in topic to 9 cr max. Add'l prereqs announced in SOC each offering.
General Education Requirements: OWCB
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 371 Introduction to Stochastic Models in Finance
3 cr. Undergraduate/Graduate.
Elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools leading to the Black-Scholes model. Real data parameter fitting.
Prerequisites: jr st & one of the following pairs; Econ 413(431)(P) & 506(P), Bus Adm 210(P) & 350(P), Bus Adm 701(P) & 702(P), or Math 234(P) & MthStat 361(P), or cons instnr; or grad st.
Last Taught: Fall 2001, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 371G Introduction to Stochastic Models in Finance
3 cr. Undergraduate/Graduate.
Elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools leading to the Black-Scholes model. Real data parameter fitting.
Prerequisites: jr st & one of the following pairs; Econ 413(431)(P) & 506(P), Bus Adm 210(P) & 350(P), Bus Adm 701(P) & 702(P), or Math 234(P) & MthStat 361(P), or cons instnr; or grad st.
Last Taught: Fall 2001, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 381 Honors Seminar
3 cr. Undergraduate.
Significant topics to illustrate to non-mathematicians the characteristic features of mathematical thought. Only H.S. algebra and geometry assumed.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. Not open for cr toward a major in Math.
General Education Requirements: NS
Last Taught: Fall 2015, Fall 2013, Spring 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 405 Mathematical Models and Applications
3 cr. Undergraduate/Graduate.
Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors.
Prerequisites: jr st; one of: grade of C or better in Math 211(P), grade of B or better in Math 213(P), or grade of C or better in Math 231(P); & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 405G Mathematical Models and Applications
3 cr. Undergraduate/Graduate.
Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors.
Prerequisites: jr st; one of: grade of C or better in Math 211(P), grade of B or better in Math 213(P), or grade of C or better in Math 231(P); & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 413G Introduction to Numerical Analysis
3 cr. Undergraduate/Graduate.
Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature.
Prerequisites: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 413 Introduction to Numerical Analysis
3 cr. Undergraduate/Graduate.
Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature.
Prerequisites: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 415 Introduction to Scientific Computing
3 cr. Undergraduate/Graduate.
Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations.
Prerequisites: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 415G Introduction to Scientific Computing
3 cr. Undergraduate/Graduate.
Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations.
Prerequisites: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 417 Computational Linear Algebra
3 cr. Undergraduate/Graduate.
Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems.
Prerequisites: jr st & grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 417G Computational Linear Algebra
3 cr. Undergraduate/Graduate.
Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems.
Prerequisites: jr st & grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 423 Complex Analysis
3 cr. Undergraduate/Graduate.
Complex numbers; definition and properties of analytic functions of a complex variable; conformal mapping; calculus of residues; applications to mathematics and physics. See also Math 713.
Prerequisites: jr st; grade of C or better in Math 233(P); or grad st.
Last Taught: Fall 2009, Spring 1999.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 423G Complex Analysis
3 cr. Undergraduate/Graduate.
Complex numbers; definition and properties of analytic functions of a complex variable; conformal mapping; calculus of residues; applications to mathematics and physics. See also Math 713.
Prerequisites: jr st; grade of C or better in Math 233(P); or grad st.
Last Taught: Fall 2009, Spring 1999.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 431 Modern Algebra with Applications
3 cr. Undergraduate/Graduate.
Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas.
Prerequisites: jr st; grade of C or better in Math 233(P); or grad st.
Course Rules: Does not carry grad cr in math sci.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 431G Modern Algebra with Applications
3 cr. Undergraduate/Graduate.
Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas.
Prerequisites: jr st; grade of C or better in Math 233(P); or grad st.
Course Rules: Does not carry grad cr in math sci.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 451 Axiomatic Geometry
3 cr. Undergraduate/Graduate.
An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models).
Prerequisites: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.
Course Rules: Dept cons req’d for grad cr in math sci.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 451G Axiomatic Geometry
3 cr. Undergraduate/Graduate.
An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models).
Prerequisites: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.
Course Rules: Dept cons req’d for grad cr in math sci.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 453 Transformations in Geometry
3 cr. Undergraduate/Graduate.
Selected topics from vector geometry and geometric transformations such as the study of invariants and conics.
Prerequisites: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.
Course Rules: Recom for secondary school teachers. Dept cons req’d for grad cr in math sci.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 453G Transformations in Geometry
3 cr. Undergraduate/Graduate.
Selected topics from vector geometry and geometric transformations such as the study of invariants and conics.
Prerequisites: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.
Course Rules: Recom for secondary school teachers. Dept cons req’d for grad cr in math sci.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 489 Internship in Mathematics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of mathematics in a business, organizational, educational, governmental, or other appropriate setting.
Prerequisites: jr st; grade of C or better in a Math or MthStat course at the 200 level or above; or grad st.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 490 Topics in Mathematics:
3 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max.
Prerequisites: jr st, grade of C or better in a Math or MthStat course at the 200 level or above; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 490G Topics in Mathematics:
3 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max.
Prerequisites: jr st, grade of C or better in a Math or MthStat course at the 200 level or above; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored programs before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored programs before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 511 Symbolic Logic
3 cr. Undergraduate/Graduate.
First-order predicate calculus; formal properties of theoretical systems;
chief results of modern mathematical logic; advanced topics such as
completeness and computability.
Prerequisites: jr st & either Philos 212(P) or 6 cr in math at the 300-level
or above.
Course Rules: CompSci 511, Math 511 & Philos 511 are jointly offered;
they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 511G Symbolic Logic
3 cr. Undergraduate/Graduate.
First-order predicate calculus; formal properties of theoretical systems;
chief results of modern mathematical logic; advanced topics such as
completeness and computability.
Prerequisites: jr st & either Philos 212(P) or 6 cr in math at the 300-level
or above.
Course Rules: CompSci 511, Math 511 & Philos 511 are jointly offered;
they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 521 Advanced Calculus I
3 cr. Undergraduate/Graduate.
Fundamental notions of sets and functions; limits, continuity, Riemann
integral, improper integral; infinite series; uniform convergence; power
series; improper integrals with a parameter.
Prerequisites: jr st; grades of C or better in Math 232(P) & 341(P); or grad
st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 521G Advanced Calculus I
3 cr. Undergraduate/Graduate.
Fundamental notions of sets and functions; limits, continuity, Riemann
integral, improper integral; infinite series; uniform convergence; power
series; improper integrals with a parameter.
Prerequisites: jr st; grades of C or better in Math 232(P) & 341(P); or grad
st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 522 Advanced Calculus II
3 cr. Undergraduate/Graduate.
Linear functions; differentiation of functions of several variables (implicit
functions, Jacobians); change of variable in multiple integrals; integrals
over curves, surfaces; Green, Gauss, Stokes theorems.
Prerequisites: jr st, Math 521(P), grade of C or better in Math 233(P), &
grade of C or better in either Math 234(P) or 240(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 522G Advanced Calculus II
3 cr. Undergraduate/Graduate.
Linear functions; differentiation of functions of several variables (implicit
functions, Jacobians); change of variable in multiple integrals; integrals
over curves, surfaces; Green, Gauss, Stokes theorems.
Prerequisites: jr st, Math 521(P), grade of C or better in Math 233(P), &
grade of C or better in either Math 234(P) or 240(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 531 Modern Algebra
3 cr. Undergraduate/Graduate.
Integers; groups; rings; fields; emphasis on proofs.
Prerequisites: jr st; grade of C or better in Math 341(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 531G Modern Algebra
3 cr. Undergraduate/Graduate.
Integers; groups; rings; fields; emphasis on proofs.
Prerequisites: jr st; grade of C or better in Math 341(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 535 Linear Algebra
3 cr. Undergraduate/Graduate.
Vector spaces; systems of linear equations; linear transformations and matrices; bilinear, quadratic, and Hermitian forms; eigentheory; canonical forms; selected topics. Emphasizes theory and proof.
Prerequisites: junior standing, a grade of C or better in MATH 234(P) or MATH 240(P), and a grade of C or better in MATH 341(P); or graduate standing.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 535G Linear Algebra
3 cr. Undergraduate/Graduate.
Vector spaces; systems of linear equations; linear transformations and matrices; bilinear, quadratic, and Hermitian forms; eigentheory; canonical forms; selected topics. Emphasizes theory and proof.
Prerequisites: junior standing, a grade of C or better in MATH 234(P) or MATH 240(P), and a grade of C or better in MATH 341(P); or graduate standing.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 537 Number Theory
3 cr. Undergraduate/Graduate.
Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity.
Prerequisites: jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 537G Number Theory
3 cr. Undergraduate/Graduate.
Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity.
Prerequisites: jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 551 Elementary Topology
3 cr. Undergraduate/Graduate.
General theory of point sets in Euclidean spaces, with emphasis on topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; applications.
Prerequisites: jr st; grades of C or better in Math 233(P) & 341(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 553 Differential Geometry
3 cr. Undergraduate/Graduate.
The theory of curves and surfaces by differential methods.
Prerequisites: jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 553G Differential Geometry
3 cr. Undergraduate/Graduate.
The theory of curves and surfaces by differential methods.
Prerequisites: jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 571 Introduction to Probability Models
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; grade of C or better in Math 233(P); grade of C or better in Math/ElecEng 234(P) or in both Math 240(P) & 320(P); & one calculus-based course in statistics or probability at the 300 level or above; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 571G Introduction to Probability Models
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; grade of C or better in Math 233(P); grade of C or better in Math/ElecEng 234(P) or in both Math 240(P) & 320(P); & one calculus-based course in statistics or probability at the 300 level or above; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 575 High School Mathematics from an Advanced Viewpoint
3 cr. Undergraduate/Graduate.
Number systems; algebra of polynomials; theory of equations; functions; modeling; geometric measurement; geometric transformations; connections between advanced mathematics and high school topics.
Prerequisites: jr st, grade of C or better in all of Math 234(P) and an additional 6 credits of Math at the 300 level or above; or cons instr; or grad st.
Course Rules: Counts as repeat of MATH 690 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 575G High School Mathematics from an Advanced Viewpoint
3 cr. Undergraduate/Graduate.
Number systems; algebra of polynomials; theory of equations; functions; modeling; geometric measurement; geometric transformations; connections between advanced mathematics and high school topics.
Prerequisites: jr st, grade of C or better in all of Math 341(P) and an additional 6 credits of Math at the 300 level or above; or cons instr; or grad st.
Course Rules: Counts as repeat of MATH 690 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 581 Introduction to the Theory of Chaotic Dynamical Systems
3 cr. Undergraduate/Graduate.
Iterated mappings, one parameter families, attracting and repelling periodic orbits, topological transitivity, Sarkovski’s theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors.
Prerequisites: jr st & Math 521(P), 529(P) or 621(P), or cons instr; or grad st.
Last Taught: Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 581G Introduction to the Theory of Chaotic Dynamical Systems
3 cr. Undergraduate/Graduate.
Iterated mappings, one parameter families, attracting and repelling periodic orbits, topological transitivity, Sarkovski’s theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors.
Prerequisites: jr st & Math 521(P), 529(P) or 621(P), or cons instr; or grad st.
Last Taught: Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 591 Undergraduate Seminar
1 cr. Undergraduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 599 Capstone Experience
1 cr. Undergraduate.
Student writes a paper under supervision of an advisor on an approved topic not covered in the student’s regular course work.
Prerequisites: sr st; cons instr.
Course Rules: May be retaken w/chg in topic to 2 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 601 Advanced Engineering Mathematics I
3 cr. Undergraduate/Graduate.
Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations.
Prerequisites: jr st; grade of C or better in both of Math 233(P) and Math/ ElecEng 234(P); 3 cr Math at 300-level or above; or cons instr; or grad st.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 601G Advanced Engineering Mathematics I
3 cr. Undergraduate/Graduate.
Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations.
Prerequisites: jr st; grade of C or better in both of Math 233(P) and Math/ ElecEng 234(P); 3 cr Math at 300-level or above; or cons instr; or grad st.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 602 Advanced Engineering Mathematics II
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Math 601(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 602G Advanced Engineering Mathematics II
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Math 601(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 615 Numerical Solution of Partial Differential Equations
3 cr. Undergraduate/Graduate.
Finite difference solution of elliptic boundary value problems and of evolution problems; solution of hyperbolic conservation laws; finite volume methods; finite element methods.
Prerequisites: jr st; Math 413(P), 415(414)(P), or 417(416)(P); Math 322(P) or 602(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 615G Numerical Solution of Partial Differential Equations
3 cr. Undergraduate/Graduate.
Finite difference solution of elliptic boundary value problems and of evolution problems; solution of hyperbolic conservation laws; finite volume methods; finite element methods.
Prerequisites: jr st; Math 413(P), 415(414)(P), or 417(416)(P); Math 322(P) or 602(P); or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 617 Optimization
3 cr. Undergraduate/Graduate.
Unconstrained and constrained optimization: linear, nonlinear, and dynamic programming; barrier, penalty, and Lagrangian methods; Karush-Kuhn-Tucker theory, quadratic, and sequential quadratic programming; evolutionary algorithms.
Prerequisites: jr st; Math 321(P) or 602(P); or grad st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 617G Optimization
3 cr. Undergraduate/Graduate.
Unconstrained and constrained optimization: linear, nonlinear, and dynamic programming; barrier, penalty, and Lagrangian methods; Karush-Kuhn-Tucker theory, quadratic, and sequential quadratic programming; evolutionary algorithms.
Prerequisites: jr st; Math 321(P) or 602(P); or grad st or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 621 Introduction to Analysis I
3 cr. Undergraduate/Graduate.
Topology of Euclidean space; continuity; differentiation of real and vector-valued functions; Riemann-Stieltjes integration.
Prerequisites: jr st; grades of C or better in Math 233(P), 341(P), & either 234(P) or 240(P); cons dept advisor; or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 621G Introduction to Analysis I
3 cr. Undergraduate/Graduate.
Topology of Euclidean space; continuity; differentiation of real and vector-valued functions; Riemann-Stieltjes integration.
Prerequisites: jr st; grades of C or better in Math 233(P), 341(P), & either 234(P) or 240(P); cons dept advisor; or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 622 Introduction to Analysis II
3 cr. Undergraduate/Graduate.
Continues Math 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem.
Prerequisites: jr st; Math 621(P) or cons instr; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 622G Introduction to Analysis II
3 cr. Undergraduate/Graduate.
Continues Math 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem.
Prerequisites: jr st; Math 621(P) or cons instr; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 631 Modern Algebra I
3 cr. Undergraduate/Graduate.
Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields.
Prerequisites: jr st; grade of C or better in Math 341(P) & either Math 234(P) or 240(P); cons dept advisor; or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 631G Modern Algebra I
3 cr. Undergraduate/Graduate.
Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields.
Prerequisites: jr st; grade of C or better in Math 341(P) & either Math 234(P) or 240(P); cons dept advisor; or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 632 Modern Algebra II
3 cr. Undergraduate/Graduate.
Continuation of Math 631. Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms.
Prerequisites: jr st; Math 631(P) or cons instr; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 632G Modern Algebra II
3 cr. Undergraduate/Graduate.
Continuation of Math 631. Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms.
Prerequisites: jr st; Math 631(P) or cons instr; or grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 690 Topics in Mathematics:
3 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st, at least one U/G Math or MthStat course; cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Summer 2020, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 690G Topics in Mathematics:
3 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st, at least one U/G Math or MthStat course; cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Summer 2020, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 699 Independent Reading
1-3 cr. Undergraduate.
See Advanced Independent Study. For further information, consult dept chair.
Prerequisites: jr st; 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 701 Industrial Mathematics I
3 cr. Graduate.
Elementary functional analysis, wavelets, control theory. Use of mathematical software emphasized throughout.
Prerequisites: grad st in nat sci discipline; Math 522(P) or 602(P) or 622(P).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 702 Industrial Mathematics II
3 cr. Graduate.
Optimal control theory, digital signal processing, image processing, linear programming, nonlinear optimization, artificial neural networks. Use of mathematical software emphasized throughout.
Prerequisites: grad st in nat sci discipline; Math 701(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 703 Boundary Value Problems
3 cr. Graduate.
Analytic methods for PDE’s in mathematical physics, emphasis on green’s functions. Theory of distributions, fundamental solutions, generalized eigenfunction expansions, generalized fourier and laplace transforms.
Prerequisites: grad st; Math 322(P) & 623(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 709 Differential Geometry
3 cr. Graduate.
The theory of curves, surfaces, and manifolds in modern terminology. Global results on closed surfaces, geodesics, differential forms and tensor calculus. Introduction to riemannian geometry.
Prerequisites: grad st; Math 522(P) or 622(P).
Last Taught: Fall 2007, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 711 Theory of Functions of a Real Variable I
3 cr. Graduate.
Equivalence relations; cardinal and ordinal numbers; topology of real line; cantor and borel sets; lebesgue measure on real line; baire and measurable functions; lebesgue integral.
Prerequisites: grad st; Math 522(P) & 551(P); or Math 622(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 712 Theory of Functions of a Real Variable II
3 cr. Graduate.
Lebesgue integration; modes of convergence; lp spaces; variational methods; lebesgue density theorems; dini derivates; differentiation; fundamental theorem of the lebesgue integral calculus; fubini’s theorem.
Prerequisites: grad st; Math 711(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 713 Theory of Functions of a Complex Variable I
3 cr. Graduate.
Complex numbers; linear transformations; elementary functions; conformal mapping; complex integration; infinite sequences; dirichlet problem; multivalued functions.
Prerequisites: grad st; Math 522(P) or 621(P).
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 714 Theory of Functions of a Complex Variable II
3 cr. Graduate.
Continuation of Math 713.
Prerequisites: grad st; Math 713(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 715 Numerical Analysis
3 cr. Graduate.
Interpolation and approximation; differentiation and quadrature; numerical solution of ordinary differential equations; solution of linear and nonlinear algebraic equations.
Prerequisites: grad st; Math 413(P); Math 521(P) or 621(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 716 Ordinary Differential Equations
3 cr. Graduate.
Existence and uniqueness theorems for systems of ode; qualitative properties of solutions, including stability and asymptotic behavior; general theory of linear systems; sturm-liouville problems.
Prerequisites: grad st; Math 522(P) or 622(P).
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 719 Partial Differential Equations
3 cr. Graduate.
First and second order equations; characteristics, cauchy problem; classical solutions of linear elliptic, parabolic and hyperbolic equations.
Prerequisites: grad st; Math 522(P) or 622(P); math 320(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 721 Abstract Measure and Integration
3 cr. Graduate.
General theory of measures and integration; differentiation of set functions; relation to stochastic variables; atomic measures; haar measure and integral applications to probability theory.
Prerequisites: grad st; Math 712(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 726 Introduction to Functional Analysis
3 cr. Graduate.
Basic notions of functional analysis in hilbert space will be introduced. The concepts will be illustrated by applications to elementary differential and integral equation problems.
Prerequisites: grad st; Math 522(P) or 622(P).
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 731 Abstract Algebra I
3 cr. Graduate.
Basic course which is prerequisite for all other 700-799 level courses in algebra; groups, rings, fields, galois theory, modules, and categories.
Prerequisites: grad st; Math 632(P); cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 732 Abstract Algebra II
3 cr. Graduate.
Continuation of Math 731.
Prerequisites: grad st; Math 731(P).
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 735 Theory of Groups
3 cr. Graduate.
Topics selected from permutation groups; representations of groups and
algebras; group algebras; group characters; extension problems; simple
groups; solvable and nilpotent groups.
Prerequisites: grad st; Math 732(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 736 Theory of Rings and Modules I
3 cr. Graduate.
Noetherian and artinian rings and modules; primitive, prime and simple
rings and ideals; radicals; localization; morita theory; construction and
study of special classes of rings.
Prerequisites: grad st; Math 732(P).
Last Taught: Fall 2005, Fall 1991, Fall 1988, Fall 1986.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 737 Theory of Rings and Modules II
3 cr. Graduate.
Continuation of Math 736.
Prerequisites: grad st; Math 736(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 751 Introductory Topology I
3 cr. Graduate.
Fundamental properties and examples of topological spaces and
continuous functions, including compactness, connectedness,
metrizability, completeness, product and quotient spaces,
homeomorphisms, embedding, extension, and euclidean spaces.
Prerequisites: grad st; Math 522(P) or 621(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 752 Introductory Topology II
3 cr. Graduate.
Continuation of Math 751.
Prerequisites: grad st; Math 751(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 753 Introduction to Algebraic Topology I
3 cr. Graduate.
Homology theory; complexes and simplicial homology theory; general
homology theories; cohomology rings; applications to manifolds, fixed
point theorems, etc.
Prerequisites: grad st; Math 632(P); Math 551(P) or 751(P) or cons instr.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 754 Introduction to Algebraic Topology II
3 cr. Graduate.
Continuation of Math 753.
Prerequisites: grad st; Math 753(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 757 Statistical Methods for Engineers and Scientists
3 cr. Graduate.
Elementary bayesian decision theory; prior posterior and predictive
distributions; posterior and pre-posterior analysis of two action decision
problems; concept of likelihood functions for binomial, poisson,
exponential and normal distributions; simple and multiple regression
analysis; introduction to autoregressive models.
Prerequisites: grad st; Math 362(P) or math 467(P).
Course Rules: Not open to students who have cr in ElecEng 767, which is
identical to Math 767.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 768 Applied Stochastic Processes
3 cr. Graduate.
Concepts in queueing theory; exponential channels; applications of
markov chains to queueing problems; queue disciplines with priorities.
Prerequisites: grad st; Math 361(P) or math 467(P).
Course Rules: Not open to students who have cr in ElecEng 768, which is
identical to Math 768.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 771 Theory of Probability
3 cr. Graduate.
Measure-theoretic foundations; limit-law theorems; weak and strong
laws of large numbers; central limit problem; conditional expectations,
martingales; stochastic processes.
Prerequisites: grad st; Math 471(C) or 712(C).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 781 Iterated Maps as Dynamical Systems
3 cr. Graduate.
Periodic, recurrent and non-wandering points, kneading theory, unstable
manifolds, unimodal mappings, turbulent and chaotic maps, symbolic
dynamics, structural stability, topological conjugacy, topological
dynamics.
Prerequisites: grad st; Math 711(P) or cons instr.
Last Taught: Fall 2000, Fall 1993, Fall 1992.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 790 Master's Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: Cr count toward masters degree only if student completes
thesis option.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 791 Master's Seminar
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: May not be taken for cr more than once.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 792 Industrial Internship
1-3 cr. Graduate.
Students earn credits for serving in an industrial internship that involves work of an advanced mathematical nature. They must prepare a report based on the internship.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 793 Scientific Computational Laboratory
1-2 cr. Graduate.
Prerequisites: grad st; Math 715(C).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 799 Seminar in Mathematics:
1-3 cr. Graduate.
Specific topics and any additional prerequisites announced in Timetable each time course is offered.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 801 Topics in Applied Mathematics:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 24 cr max.
Last Taught: Fall 2018, Fall 2016, Spring 2015, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 807 Group Theory and Its Applications to Physics
3 cr. Graduate.
Representations of discrete and continuous groups, including rotation groups, unitary groups and crystal point and space groups. Symmetries of elementary particles. Molecular orbitals, energy bands.
Prerequisites: grad st; Physics 532(P).
Course Rules: Counts as a repeat of Physics 807.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 809 Topics in Differential Geometry:
1-3 cr. Graduate.
Topics may be selected from Riemannian geometry, minimal surfaces and surfaces of prescribed mean curvature, geometric partial differential equations, or related areas of geometry. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 24 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 813 Numerical Solution of Ordinary Differential Equations
3 cr. Graduate.
Methods for initial value and boundary value problems; stiff equations, singular points and bifurcation.
Prerequisites: grad st; Math 715(P).
Last Taught: Fall 2001, Fall 1998, Fall 1987, Fall 1986.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 814 Numerical Solution of Partial Differential Equations
3 cr. Graduate.
Finite difference and finite element methods for linear elliptic, parabolic and hyperbolic equations; nonlinear equations.
Prerequisites: grad st; Math 715(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 815 Topics in Numerical Analysis:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 715(P).
Course Rules: Retakable w/chg in topic to 24 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 816 Advanced Ordinary Differential Equations
3 cr. Graduate.
Existence and uniqueness theorems; singularity of solutions; oscillation and comparison theorems; poincare-bendixon theory.
Prerequisites: grad st; Math 716(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 817 Advanced Ordinary Differential Equations II
3 cr. Graduate.
Continuation of Math 816; dynamical systems, bifurcation theory, topological methods.
Prerequisites: grad st; Math 816(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 821 Advanced Topics in Real Analysis:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 715(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 825 Functional Analysis
3 cr. Graduate.
Basic theorems of b-spaces and f-spaces including the closed graph; Hahn-Banach and Banach-Steinhaus theorems; Banach algebras; generalized functions; spectral theory.
Prerequisites: grad st; Math 712(P).
Last Taught: Spring 2013, Fall 1998, Fall 1994, Fall 1993.
Current Offerings: https://catalog.uwm.edu/course-search/
MATH 841 Advanced Topics in Algebra:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 732(P); cons instr.
Course Rules: Retakable w/chg in topic to 24 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 843 Homological Algebra I
3 cr. Graduate.
Modules; diagrams; categories; functors; complexes; cohomology; extensions; resolutions; injective and projective systems; graded modules; homological dimension; spectral sequences; derived functors.
Prerequisites: grad st; Math 731(P).
Last Taught: Fall 2019, Fall 2015, Fall 2010, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 844 Homological Algebra II
3 cr. Graduate.
Continuation of Math 843.
Prerequisites: grad st; Math 843(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 851 Advanced Topics in Topology:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 752(P); cons instr.
Course Rules: Retakable w/chg in topic to 24 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 873 Advanced Topics in Probability:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: graduate standing and consent of instructor.
Course Rules: Retakable with change in topic to 24 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 881 Topics in Nonlinear Dynamics:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 711(P); cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MATH 990 Reading and Research
1-6 cr. Graduate.
To be arranged with your instructor and department chair.
Prerequisites: grad st.
Course Rules: Retakable.
Current Offerings: https://catalog.uwm.edu/course-search/

Mathematical Statistics (MTHSTAT)

MTHSTAT 194 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 215 Elementary Statistical Analysis
3 cr. Undergraduate.
Elementary probability theory; descriptive statistics; sampling distributions; classic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.
Prerequisites: satisfaction of Quantitative Literacy Part A GER.
General Education Requirements: NS, QLB
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 216 Introduction to Statistical Computing and Data Science
3 cr. Undergraduate.
Introduction to hands-on data analysis, performed on large, complex and realistic data sets, using a scientific programming language like R.
Prerequisites: MTHSTAT 215(P), BUS ADM 210(P), ECON 210(P), or PSYCH 210(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 278 Discrete Probability and Statistics for Elementary Education Majors
3 cr. Undergraduate.
Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference.
Prerequisites: grade of C or better in Math 176(P) or cons instr.
Course Rules: Math 278 and MthStat 278 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/
MTHSTAT 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 361 Introduction to Mathematical Statistics I
3 cr. Undergraduate/Graduate.
Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation.
Prerequisites: jr st; Math 233(P).
Course Rules: Not recom for grad students in math, or students not planning to take MthStat 362.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 361G Introduction to Mathematical Statistics I
3 cr. Undergraduate/Graduate.
Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation.
Prerequisites: jr st; Math 233(P).
Course Rules: Not recom for grad students in math, or students not planning to take MthStat 362.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 362 Introduction to Mathematical Statistics II
3 cr. Undergraduate/Graduate.
Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods.
Prerequisites: jr st; MthStat 361(P).
Course Rules: Not recom for grad students in math.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 362G Introduction to Mathematical Statistics II
3 cr. Undergraduate/Graduate.
Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods.
Prerequisites: jr st; MthStat 361(P).
Course Rules: Not recom for grad students in math.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 461 Data Analysis and Graphing Using SAS-I
2 cr. Undergraduate.
Introduction to SAS language programming. Procedures for handling raw data, SAS data, and parametric and nonparametric univariate data analysis; procedures for graphical display. Offered first half of sem.
Prerequisites: MthStat 215(P), 362(P), 465(P), 467(P), Bus Adm 210(P), or Econ 210(P).
Course Rules: Does not count toward math sci major.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 462 Data Analysis and Graphing Using SAS-II
2 cr. Undergraduate/Graduate.
Continuation of MthStat 461. Procedures GLM, LIFEREG, LIFETEST, LOGISTIC, PROBIT and advanced GRAPHING. Offered second half of sem.
Prerequisites: jr st; MthStat 461(P) or cons instr.
Course Rules: U cr does not count toward math sci major.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 462G Data Analysis and Graphing Using SAS-II
2 cr. Undergraduate/Graduate.
Continuation of MthStat 461. Procedures GLM, LIFEREG, LIFETEST, LOGISTIC, PROBIT and advanced GRAPHING. Offered second half of sem.
Prerequisites: jr st; MthStat 461(P) or cons instr.
Course Rules: U cr does not count toward math sci major.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 465 Introductory Mathematical Statistics for Social Sciences and Education
3 cr. Undergraduate/Graduate.
Probability distributions; parameter estimation and confidence intervals; hypothesis testing; applications.
Prerequisites: jr st; Math 211(P) or 232(P).
Course Rules: Not open for cr to students w/cr in MthStat 467, 362, or for grad cr in math. Not open for cr toward major in math except in School of Education.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 465G Introductory Mathematical Statistics for Social Sciences and Education
3 cr. Undergraduate/Graduate.
Probability distributions; parameter estimation and confidence intervals; hypothesis testing; applications.
Prerequisites: jr st; Math 211(P) or 232(P).
Course Rules: Not open for cr to students w/cr in MthStat 467, 362, or for grad cr in math. Not open for cr toward major in math except in School of Education.
Current Offerings: https://catalog.uwm.edu/course-search/
MTHSTAT 467 Introductory Statistics for Physical Sciences and Engineering Students

3 cr. Undergraduate/Graduate.
Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing, parameter estimation; experimental design; regression analysis.
Prerequisites: jr st; Math 233(P).
Course Rules: Not open for cr for Math majors or students with cr in MthStat 362 or 465.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 467G Introductory Statistics for Physical Sciences and Engineering Students

3 cr. Undergraduate/Graduate.
Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing, parameter estimation; experimental design; regression analysis.
Prerequisites: jr st; Math 233(P).
Course Rules: Not open for cr for Math majors or students with cr in MthStat 362 or 465.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 469 Biostatistics

3 cr. Undergraduate/Graduate.
Simple distributions, estimation and hypothesis testing, simple regression, analysis of variance, nonparametric methods in biology. Demography and vital statistics and bioassay and clinical trials.
Prerequisites: jr st; an elementary stats course.
Course Rules: Not allowed as part of core curric for Math majors. Not open for cr to students with cr in MthStat 569 & not open for grad cr in Math.
Last Taught: Fall 1987, Fall 1986.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 469G Biostatistics

3 cr. Undergraduate/Graduate.
Simple distributions, estimation and hypothesis testing, simple regression, analysis of variance, nonparametric methods in biology. Demography and vital statistics and bioassay and clinical trials.
Prerequisites: jr st; an elementary stats course.
Course Rules: Not allowed as part of core curric for Math majors. Not open for cr to students with cr in MthStat 569 & not open for grad cr in Math.
Last Taught: Fall 1987, Fall 1986.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 489 Internship in Mathematical Statistics, Upper Division

1-6 cr. Undergraduate.
Application of advanced principles of mathematical statistics in a business, organizational, educational, governmental, or other appropriate setting.
Prerequisites: jr st; 6 cr 300-level or above in Math or MthStat; 2.5 gpa in the major; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 499 Ad Hoc:

1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 562 Design of Experiments

3 cr. Undergraduate/Graduate.
Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication.
Prerequisites: jr st; MthStat 362(P); Math 234(P) or 240(P).
Last Taught: Fall 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 562G Design of Experiments

3 cr. Undergraduate/Graduate.
Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication.
Prerequisites: jr st; MthStat 362(P); Math 234(P) or 240(P).
Last Taught: Fall 2008, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 563 Regression Analysis

3 cr. Undergraduate/Graduate.
Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis.
Prerequisites: jr st; MthStat 467(P) or 362(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 563G Regression Analysis

3 cr. Undergraduate/Graduate.
Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis.
Prerequisites: jr st; MthStat 467(P) or 362(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 564 Time Series Analysis

3 cr. Undergraduate/Graduate.
Autocorrelation; spectral density; linear models; forecasting; model identification and estimation.
Prerequisites: jr st; MthStat 362(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 564G Time Series Analysis

3 cr. Undergraduate/Graduate.
Autocorrelation; spectral density; linear models; forecasting; model identification and estimation.
Prerequisites: jr st; MthStat 362(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MTHSTAT 565 Nonparametric Statistics
3 cr. Undergraduate/Graduate.
Sign, rank and permutation tests; tests of randomness and independence; methods for discrete data and zeroes and ties; power and efficiency of nonparametric tests.
Prerequisites: jr st; MthStat 362(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 565G Nonparametric Statistics
3 cr. Undergraduate/Graduate.
Sign, rank and permutation tests; tests of randomness and independence; methods for discrete data and zeroes and ties; power and efficiency of nonparametric tests.
Prerequisites: jr st; MthStat 362(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 566 Computational Statistics
3 cr. Undergraduate/Graduate.
Basics of programming and optimization techniques; resampling, bootstrap, and Monte Carlo methods; design and analysis of simulation studies.
Prerequisites: jr st; MthStat 362(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 566G Computational Statistics
3 cr. Undergraduate/Graduate.
Basics of programming and optimization techniques; resampling, bootstrap, and Monte Carlo methods; design and analysis of simulation studies.
Prerequisites: jr st; MthStat 362(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 568 Multivariate Statistical Analysis
3 cr. Undergraduate/Graduate.
Multivariate normal distribution; Wishart distribution; Hotelling's T2; multivariate normal distribution; multivariate analysis of variance; classification problems.
Prerequisites: jr st; MthStat 362(P); Math 234(P) or 240(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 568G Multivariate Statistical Analysis
3 cr. Undergraduate/Graduate.
Multivariate normal distribution; Wishart distribution; Hotelling's T2; multivariate normal distribution; multivariate analysis of variance; classification problems.
Prerequisites: jr st; MthStat 362(P); Math 234(P) or 240(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 597G Actuarial Statistics II
3 cr. Undergraduate.
Credibility theory, ratemaking, and reserving.
Prerequisites: jr st; MATH 234(P); MTHSTAT 362(P).
Course Rules: Counts as a repeat of MTHSTAT 597.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 761 Mathematical Statistics I
3 cr. Graduate.
Probability and distribution theory; point and interval estimation; testing hypotheses; large sample inference; nonparametric inference; sequential analysis.
Prerequisites: grad st; Math 522(C) or 622(C).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 762 Mathematical Statistics II
3 cr. Graduate.
Continuation of MthStat 761.
Prerequisites: grad st; MthStat 761(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 763 Regression Analysis
3 cr. Graduate.
Introduction to linear statistical models and methods. Core topics include: simple and multiple linear regression, model checking, variable transformations, outlier diagnostics, variable selection, and generalized linear models such as logistic regression.
Prerequisites: graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P); or consent of instructor.
Course Rules: No credit for students with credit in MTHSTAT 563.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 764 Time Series Analysis
3 cr. Graduate.
Introduction to statistical models and methods for time series data analysis. Core topics include: exponential smoothing, ARIMA models, transfer functions and intervention models, state-space models, GARCH models.
Prerequisites: graduate standing; MTSTAT 362(P) or MTHSTAT 467(P); or consent of instructor.
Course Rules: No credit for students with credit in MTHSTAT 564.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 766 Computational Statistics
3 cr. Graduate.
Introduction to statistical computer programming. Main topics include: basics of programming in R or similar language; optimization and root-finding algorithms; Monte Carlo numerical integration; random sample generation; bootstrap and permutation tests; comparative simulation studies.
Prerequisites: graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P); or consent of instructor.
Course Rules: No credit for students with credit in MTHSTAT 566.
Current Offerings: https://catalog.uwm.edu/course-search/

MTHSTAT 768 Multivariate Statistical Analysis
3 cr. Graduate.
Introduction to statistical models and methods for multivariate data analysis. Core topics include: multivariate random vectors and distributions, principal component analysis, canonical correlation analysis, factor analysis, classification and discrimination, clustering techniques, and multidimensional scaling.
Prerequisites: graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P); or consent of instructor.
Course Rules: No credit for students with credit in MTHSTAT 568.
Current Offerings: https://catalog.uwm.edu/course-search/
Mechanical Engineering (MECHENG)

BEHER 301 Basic Engineering Thermodynamics
3 cr. Undergraduate.
Basic energy concepts and definitions; First and Second Laws of Thermodynamics; ideal and real gases; thermodynamic properties; introductory cycle analysis.
Prerequisites: Math 233(P) & Physics 209(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 302 Analysis and Modeling of Dynamic Systems
4 cr. Undergraduate.
Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments.
Prerequisites: MechEng 101(P), ElecEng 234(P), and Physics 210(P).
Course Rules: Jointly offered with & counts as repeat of BME 302.
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 320 Introduction to Fluid Mechanics
3 cr. Undergraduate.
Basic law of fluid mechanics with applications to engineering problems and with laboratory demonstrations.
Prerequisites: MechEng 301(C); ElecEng 234(P) & Civ Eng 202(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 321 Basic Heat Transfer
4 cr. Undergraduate.
Introduction to conduction, convection and radiation heat transfer; heat exchangers; mass transfer analogies; laboratory experiments.
Prerequisites: jr st; MechEng 301(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 323 Fluid Mechanics Laboratory
1 cr. Undergraduate.
Hands-on experiments involving applications of potential flows, boundary layer flows, gas dynamics, aerodynamics, and fluid power.
Prerequisites: jr st; MechEng 320(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 360 Mechanical Design I
3 cr. Undergraduate.
Kinematic and dynamic analysis of machine members and design applications to linkages, cams, gears, machine balancing and mechanical systems subject to various constraints.
Prerequisites: MechEng 101(P),111(P), & Civ Eng 202(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 366 Design of Machine Elements
4 cr. Undergraduate.
Design of mechanical components under steady and fatigue loads.
Design of columns, shafts, fasteners, springs, bearings, gearing, etc. Mini-design projects.
Prerequisites: MechEng 101(P),111(P); MatlEng 201(P); & Civ Eng 303(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 150 How Things Work: Understanding Technology
3 cr. Undergraduate.
An introductory course that explains the technology that affects our everyday life. Topics include: automobiles, computers, telephone, radio, television, etc.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 370 Computer Aided Engineering Laboratory
2 cr. Undergraduate.
Mechanical design and analysis using state of the art CADD, kinematics, and FEA computer tools.
Prerequisites: MechEng 101(P) & 111(P); Civ Eng 202(P) & 303(P); & ElecEng 234(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 402 Thermo-Fluid Engineering
3 cr. Undergraduate.
Analysis and design of systems involving applications of thermodynamics, heat transfer, and fluid mechanics. Applications include heat exchangers, power generation, refrigeration systems, and environmental control.
Prerequisites: MechEng 320(P) & 321(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 405 Product Realization
3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321 (P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 405G Product Realization
3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321 (P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 411 Heat Transfer
3 cr. Undergraduate/Graduate.
Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers.
Prerequisites: jr st; MechEng 321 (P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 411G Heat Transfer
3 cr. Undergraduate/Graduate.
Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers.
Prerequisites: jr st; MechEng 321 (P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 415 Modern Thermomanufacturing Processes
3 cr. Undergraduate/Graduate.
An introduction to thermal management and techniques applied to chemical vapor deposition, welding, thermal spraying, and machining (cutting and grinding).
Prerequisites: jr st; Civ Eng 303(P), Mecheng 321(P) or equiv, or cons instr.
Last Taught: Spring 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 420 Intermediate Fluid Mechanics
3 cr. Undergraduate/Graduate.
Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.
Prerequisites: jr st; MechEng 320 (P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 420G Intermediate Fluid Mechanics
3 cr. Undergraduate/Graduate.
Navier-Stokes Equations; CFD package training; Potential Flows; Boundary-Layer Approximation; Turbulent Flows; Porous-Media Flows; Turbomachinery Flows.
Prerequisites: jr st; MechEng 320(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 423 Applied Fluid Mechanics
3 cr. Undergraduate/Graduate.
Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.
Prerequisites: jr st; MechEng 320 (P).
Last Taught: Fall 2003, Fall 1997.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 423G Applied Fluid Mechanics
3 cr. Undergraduate/Graduate.
Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.
Prerequisites: jr st; MechEng 320 (P).
Last Taught: Fall 2003, Fall 1997.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 425 Aerodynamics of Wind Turbines
3 cr. Undergraduate/Graduate.
Introductory and intermediate wind turbine aerodynamics; wind and wind turbine interaction in energy transmission.
Prerequisites: jr st; MechEng 320(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 425G Aerodynamics of Wind Turbines
3 cr. Undergraduate/Graduate.
Introductory and intermediate wind turbine aerodynamics; wind and wind
turbine interaction in energy transmission.
Prerequisites: jr st; MechEng 320(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 430 Energy Modeling
3 cr. Undergraduate/Graduate.
Electrical/thermal energy modeling through lectures and hands-on
classroom work along with use of energy modeling software.
Prerequisites: jr st; or cons instr.
Course Rules: Jointly offered with and counts as repeat of ElecEng 430.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 430G Energy Modeling
3 cr. Undergraduate/Graduate.
Electrical/thermal energy modeling through lectures and hands-on
classroom work along with use of energy modeling software.
Prerequisites: jr st; or cons instr.
Course Rules: Jointly offered with and counts as repeat of ElecEng 430.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 432 Internal Combustion Engines
3 cr. Undergraduate/Graduate.
Thermodynamic principles of internal combustion engines; cycles,
combustion, engine operation; carburation, ignition, performance
analysis; engine balancing; super charging.
Prerequisites: jr st; MechEng 301 (P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 432G Internal Combustion Engines
3 cr. Undergraduate/Graduate.
Thermodynamic principles of internal combustion engines; cycles,
combustion, engine operation; carburation, ignition, performance
analysis; engine balancing; super charging.
Prerequisites: jr st; MechEng 301 (P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 434 Air Conditioning System Design
3 cr. Undergraduate/Graduate.
The design of systems for heating and cooling spaces. Selection and
design of central heating, cooling and energy distribution systems.
Prerequisites: jr st; MechEng 321 (P), Ind Eng 210(P).
Last Taught: Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 434G Air Conditioning System Design
3 cr. Undergraduate/Graduate.
The design of systems for heating and cooling spaces. Selection and
design of central heating, cooling and energy distribution systems.
Prerequisites: jr st; MechEng 321 (P), Ind Eng 210(P).
Last Taught: Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 435 Power Plant Theory and Design
3 cr. Undergraduate/Graduate.
Application of engineering principles to design and analysis of power-
production systems. Fossil fuel, nuclear, and gas-turbine power plants.
Alternative power generation. Environmental aspects.
Prerequisites: jr st; MechEng 301(P).
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 435G Power Plant Theory and Design
3 cr. Undergraduate/Graduate.
Application of engineering principles to design and analysis of power-
production systems. Fossil fuel, nuclear, and gas-turbine power plants.
Alternative power generation. Environmental aspects.
Prerequisites: jr st; MechEng 301(P).
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 436 Solar Engineering
3 cr. Undergraduate/Graduate.
Estimation of energy needs for solar heating and cooling systems for
buildings; insolation; solar collector/energy storage design; applications
to space heating/cooling, water heating.
Prerequisites: jr st, MechEng 301 (P).
Last Taught: Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 436G Solar Engineering
3 cr. Undergraduate/Graduate.
Estimation of energy needs for solar heating and cooling systems for
buildings; insolation; solar collector/energy storage design; applications
to space heating/cooling, water heating.
Prerequisites: jr st, MechEng 301 (P).
Last Taught: Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 438 Mechanical Engineering Experimentation
3 cr. Undergraduate.
Training and understanding data acquisition systems; experiment
planning; sensor calibration; professional report writing and
communication; industrial projects.
Prerequisites: sr st or cons instr; ElecEng 301(P); Ind Eng 467 or MthStat
467(P); MechEng 321(P), 360(P), 366(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 451 Applied Optics in Engineering
3 cr. Undergraduate/Graduate.
Principles of geometric and physical optics. Introduction to lasers. Topics
from current engineering uses of optics, including measurement systems
and laser machining.
Prerequisites: jr st; Physics 210(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 451G Applied Optics in Engineering
3 cr. Undergraduate/Graduate.
Principles of geometric and physical optics. Introduction to lasers. Topics
from current engineering uses of optics, including measurement systems
and laser machining.
Prerequisites: jr st; Physics 210(P) or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 455 Processing of Plastics
3 cr. Undergraduate/Graduate.
Description of plastics as polymers and polymer composites. Study of various technologies to manufacture plastics. Analytical description of flow and heat transfer in polymers.
Prerequisites: MechEng 320(P) & 321(P).
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 455G Processing of Plastics
3 cr. Undergraduate/Graduate.
Description of plastics as polymers and polymer composites. Study of various technologies to manufacture plastics. Analytical description of flow and heat transfer in polymers.
Prerequisites: MechEng 320(P) & 321(P).
Last Taught: Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 456 Metal Casting Engineering
3 cr. Undergraduate/Graduate.
Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MechEng 456 and MatlEng 456(421) are jointly offered; they count as repeats of each other.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 456G Metal Casting Engineering
3 cr. Undergraduate/Graduate.
Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MechEng 456 and MatlEng 456(421) are jointly offered; they count as repeats of each other.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 457 Engineering Composites
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MechEng 457 and MatlEng 457(455) are jointly offered; they count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 457G Engineering Composites
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MechEng 457 and MatlEng 457(455) are jointly offered; they count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 460 Nanomaterials and Nanomanufacturing
3 cr. Undergraduate/Graduate.
Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MechEng 460 & MatlEng 460 are jointly offered; they count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 460G Nanomaterials and Nanomanufacturing
3 cr. Undergraduate/Graduate.
Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MechEng 460 & MatlEng 460 are jointly offered; they count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 462 Intermediate Design of Machinery
3 cr. Undergraduate/Graduate.
Consideration of complicated loadings and combined stresses. Design against fatigue. Design and analysis of machine systems. Consideration of special topics in machine element design.
Prerequisites: jr st; MechEng 366(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 462G Intermediate Design of Machinery
3 cr. Undergraduate/Graduate.
Consideration of complicated loadings and combined stresses. Design against fatigue. Design and analysis of machine systems. Consideration of special topics in machine element design.
Prerequisites: jr st; MechEng 366(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 463 Introduction to Finite Elements
3 cr. Undergraduate/Graduate.
Generation and assembly of finite element matrices in one and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.
Prerequisites: jr st; ElecEng 234(P), Civ Eng 303(P); MechEng 320(C), 311(C) or 321(C).
Course Rules: Not open to students with cr in Civ Eng 463(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 463G Introduction to Finite Elements
3 cr. Undergraduate/Graduate.
Generation and assembly of finite element matrices in one and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.
Prerequisites: jr st; ElecEng 234(P), Civ Eng 303(P), MechEng 320(C), 311(C) or 321(C).
Course Rules: Not open to students with cr in Civ Eng 463(ER).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 465 Friction and Wear
3 cr. Undergraduate/Graduate.
Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: Not open to students who have cr in MatlEng 465, which is identical to MechEng 465.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 465G Friction and Wear
3 cr. Undergraduate/Graduate.
Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: Not open to students who have cr in MatlEng 465, which is identical to MechEng 465.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 466 Mechanics of Composite Materials
3 cr. Undergraduate/Graduate.
Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures.
Prerequisites: jr st & Civ Eng 303(P)
Course Rules: MechEng 466 & Civ Eng 466 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 466G Mechanics of Composite Materials
3 cr. Undergraduate/Graduate.
Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures.
Prerequisites: jr st & Civ Eng 303(P)
Course Rules: MechEng 466 & Civ Eng 466 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 469 Introduction to Biomechanical Engineering
3 cr. Undergraduate/Graduate.
Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.
Prerequisites: Civ Eng 202(P) & 303(P); or cons instr.
Course Rules: MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 469G Introduction to Biomechanical Engineering
3 cr. Undergraduate/Graduate.
Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.
Prerequisites: Civ Eng 202(P) & 303(P); or cons instr.
Course Rules: MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 472 Introduction to Wind Energy
3 cr. Undergraduate/Graduate.
Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.
Prerequisites: jr st; or cons instr.
Course Rules: MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 472G Introduction to Wind Energy
3 cr. Undergraduate/Graduate.
Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.
Prerequisites: jr st; or cons instr.
Course Rules: MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 473 Applied Dynamics
3 cr. Undergraduate/Graduate.
Application of dynamic principles to a variety of engineering situations. Behavior of particle systems and rigid body motion in space. Analysis of traffic accidents, shock machines, rockets and satellites, missiles and projectiles, dynamic balancing, gyroscopes and inertial navigation.
Prerequisites: jr st & Civ Eng 202(P).
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 473G Applied Dynamics
3 cr. Undergraduate/Graduate.
Application of dynamic principles to a variety of engineering situations. Behavior of particle systems and rigid body motion in space. Analysis of traffic accidents, shock machines, rockets and satellites, missiles and projectiles, dynamic balancing, gyroscopes and inertial navigation.
Prerequisites: jr st & Civ Eng 202(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 474 Introduction to Control Systems
4 cr. Undergraduate/Graduate.
Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.
Prerequisites: sr st; ElecEng 301(P); a grade of C or better in ElecEng 234(P) & Civ Eng 202(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 474G Introduction to Control Systems
4 cr. Undergraduate/Graduate.
Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.
Prerequisites: sr st; ElecEng 301(P); a grade of C or better in ElecEng 234(P) & Civ Eng 202(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 475 Vibrations in Mechanical Design
3 cr. Undergraduate/Graduate.
Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions.
Prerequisites: sr st; Civ Eng 202(P), ElecEng 234(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 475G Vibrations in Mechanical Design
3 cr. Undergraduate/Graduate.
Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions.
Prerequisites: sr st; Civ Eng 202(P), ElecEng 234(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 476 Introduction to Robotics
3 cr. Undergraduate/Graduate.
Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition.
Prerequisites: ElecEng 234(P), MechEng 360(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 476G Introduction to Robotics
3 cr. Undergraduate/Graduate.
Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition.
Prerequisites: ElecEng 234(P), MechEng 360(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 479 Control and Design of Mechatronic Systems
3 cr. Undergraduate/Graduate.
Understanding interfacing of mechanical systems using electromechanical components; conceptual design and analysis of high performance computer controlled mechanical systems; prototyping of mechatronic systems.
Prerequisites: sr st or cons instr; ElecEng 474(402)(P) or MechEng 474(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 479G Control and Design of Mechatronic Systems
3 cr. Undergraduate/Graduate.
Understanding interfacing of mechanical systems using electromechanical components; conceptual design and analysis of high performance computer controlled mechanical systems; prototyping of mechatronic systems.
Prerequisites: sr st or cons instr; ElecEng 474(402)(P) or MechEng 474(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 490 Topics in Mechanical Engineering:
1-3 cr. Undergraduate/Graduate.
Recent theoretical and applied topics in mechanical engineering.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken with change in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 490G Topics in Mechanical Engineering:
1-3 cr. Undergraduate/Graduate.
Recent theoretical and applied topics in mechanical engineering.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken with change in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 496 Senior Design Project
3 cr. Undergraduate.
Engineering design project in a simulated industrial environment. Student design team works on a problem in collaboration with college faculty and vendors. Formal report writing.
Prerequisites: MechEng 321(P), 360(P), 366(P), & 370(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 542 Introduction to Technology Entrepreneurship
3 cr. Undergraduate.
Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as repeat of Bus Adm 495 or Mech Eng 490 with same topic. Jointly offered with & counts as repeat of Bus Adm 542.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 543 Introduction to Technology Management and Innovation
3 cr. Undergraduate.
Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of Bus Adm 543.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 544 New Product Development
3 cr. Undergraduate/Graduate.
Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic; Jointly offered with & counts as repeat of Bus Adm 544.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 544G New Product Development
3 cr. Undergraduate/Graduate.
Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic; Jointly offered with & counts as repeat of Bus Adm 544.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 546 Global Innovation Management
3 cr. Undergraduate/Graduate.
Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of Bus Adm 546.
Last Taught: Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 546G Global Innovation Management
3 cr. Undergraduate/Graduate.
Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of Bus Adm 546.
Last Taught: Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 548 Technology Venturing Project
3 cr. Undergraduate.
A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).
Course Rules: Jointly offered with & counts as repeat of Bus Adm 548.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 574 Intermediate Control Systems
3 cr. Undergraduate/Graduate.
State space; frequency domain methods of modeling, analysis and design of control systems; digital control; and multivariate systems.
Prerequisites: sr st; Mecheng 474(P) or ElecEng 474(402)(P); or grad st.
Course Rules: ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 503(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 574G Intermediate Control Systems
3 cr. Undergraduate/Graduate.
State space; frequency domain methods of modeling, analysis and design of control systems; digital control; and multivariate systems.
Prerequisites: sr st; Mecheng 474(P) or ElecEng 474(402)(P); or grad st.
Course Rules: ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 503(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 584 Biodynamics of Human Motion
3 cr. Undergraduate/Graduate.
Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.
Prerequisites: jr st; ElecEng 234(P); Civ Eng 202(C).
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 584G Biodynamics of Human Motion
3 cr. Undergraduate/Graduate.
Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.
Prerequisites: jr st; ElecEng 234(P); Civ Eng 202(C).
Last Taught: Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: Limited to max of 6 cr applied toward undergrad degree.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 699G Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: Limited to max of 6 cr applied toward undergrad degree.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatLab 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 701 Advanced Linear System Analysis
3 cr. Graduate.
Theory and analysis of linear dynamic systems; discrete and continuous state models; linear algebra for dynamic systems; state transition matrix, numerical methods, and applications.
Prerequisites: grad st
Course Rules: ElecEng 701 & MechEng 701 are jointly offered and count as repeats of one another.
Last Taught: Fall 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 702 Advanced Engineering Thermodynamics
3 cr. Graduate.
Laws of thermodynamics, property relations, equations of state; introduction to statistical and irreversible thermodynamics; applications to perfect gases, perfect crystals, and homogeneous solutions.
Prerequisites: grad st; MechEng 301(P) & 321(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 703 Principles of Combustion
3 cr. Graduate.
Chemical kinetics and thermodynamics, conservation equations for multicomponent reacting systems, detonation, premix, diffusion and turbulent flames.
Prerequisites: grad st; MechEng 302(P) & 321(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 706 Continuum Mechanics
3 cr. Graduate.
Basic concepts of the continuum models used in the various fields of mechanics including fluid mechanics, rheology, elasticity, fracture mechanics, and plasticity.
Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 707 Transport in Porous Media
3 cr. Graduate.
Introduction to fluid mechanics in porous media, single- and multi-phase flows, volume averaged transport equations, convection heat transfer, consolidating porous media, volume averaging theory, applications.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 710 Advanced Transport Processes
2 cr. Graduate.
Vector and tensor analysis of practical engineering problems; basic laws of mass, momentum and energy transport; transport phenomena in porous media reacting and non-reaction media.
Prerequisites: MechEng 312(P) or equiv.
Last Taught: Spring 2020, Spring 2018, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 711 Thermal Radiation and Conduction
3 cr. Graduate.
Radiative properties of and radiative transfer in absorbing, emitting and scattering media; transient and steady state heat conduction; multi-mode heat transfer applications.
Prerequisites: grad st; MechEng 311(P) or 321(P).
Last Taught: Fall 2018, Fall 2014, Spring 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 712 Convection Heat and Mass Transfer
3 cr. Graduate.
Conservation equations; laminar developed and developing flows; laminar boundary layers; high speed flows; turbulent flow and heat transfer; natural convection; mass transfer; special engineering applications.
Prerequisites: grad st; MechEng 311(P) or 321(P).
Last Taught: Spring 2019, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 714 Energy Transport in Microscale Systems
3 cr. Graduate.
Introducing thermophysics of microscale systems including statistical, non-equilibrium thermodynamics, particle transport theory, energy carriers in different materials and phases, and applications including mems and nanotechnology.
Prerequisites: grad st; MechEng 320(P) & 321(P).
Last Taught: Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 715 Numerical Methods in Engineering
3 cr. Graduate.
Differential equation solutions with finite difference and finite volume methods; grid generation technique; finite element methods; applications to solid mechanics, heat transfer, and fluid mechanics.
Prerequisites: grad st; Math 413(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 718 Nonlinear Control Systems
3 cr. Graduate.
Advanced concepts and methodologies in modeling and design of nonlinear control systems. Lyapunov theory; describing functions; variable structure control.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 718 & MechEng718 are jointly offered and count as repeats of one another. Not open for credit to students w/ cr in MechEng 778.
Last Taught: Fall 2016, Fall 2010, Spring 2007, Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 721 Fundamentals of Fluid Flow
3 cr. Graduate.
Inviscid, viscous and compressible flow; potential flow in aerodynamics; analytical solutions of navier-stokes equation; laminar and turbulent boundary layers, jets, wakes, and separating flows; applications.
Prerequisites: grad st; Mecheng 320(P).
Last Taught: Fall 2018, Fall 2017, Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 722 Advanced Fluid Mechanics
3 cr. Graduate.
Formulations of navier-stokes and energy equations; turbulence models; solutions to wall, free shear layer, and recirculating flows; turbulence energy spectrum; applications to industrial problems.
Prerequisites: grad st; Mecheng 320(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 723 Computational Fluid Dynamics and Heat Transfer
3 cr. Graduate.
Finite difference methods for solving boundary layer equations, navier-stokes equations, etc. Laminar and turbulent flows.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 725 Fluid Power and Turbomachinery
2 cr. Graduate.
Concept of hydraulic systems; hydraulic motors; valves; hydraulic circuits; pneumatic systems; axial and radial gas turbines, pumps, compressors; steam turbines; hydraulic turbines; wind turbines.
Prerequisites: grad st; MechEng 320(P).
Last Taught: Spring 2019, Fall 2017, Spring 2016, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 726 Mechanical Vibrations
3 cr. Graduate.
Free and forced vibrations of multiple degree of freedom systems using modern matrix methods.
Prerequisites: grad st; Mecheng 475(R) or equiv.
Course Rules: Not open to students who have cr in Civ Eng 726 which is identical to Mecheng 726.
Last Taught: Spring 2019, Spring 2015, Spring 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 732 Solidification Processing
3 cr. Graduate.
Solidification phenomena and its engineering application to metals, semiconductors, ceramics, properties of cast products. Foundry processes.
Prerequisites: grad st; MatlEng 330(P).
Course Rules: MechEng 732 and MatlEng 732 are jointly offered; they count as repeats of each other.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 733 Sensors and Systems
3 cr. Graduate.
Physical principles and working of sensors, interfacing, and sensor networks.
Prerequisites: grad st; ElecEng 305 or cons. instr.; Jointly offered with & Counts as repeat of BME 733 & ElecEng 733.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 760 Dynamic Problems in Design
3 cr. Graduate.
Analytical methods for solution of typical vibrating and balancing problems encountered in mechanical systems. Special emphasis on methods of suppression and control.
Prerequisites: grad st; MechEng 360(P).
Last Taught: Fall 2019, Fall 2017, Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 762 Mechanical Systems Analysis
3 cr. Graduate.
An integrated treatment of mathematical modeling and analysis of mechanical systems. Modeling of machine elements and systems; performance under transient, periodic and random loads.
Prerequisites: grad st; MechEng 365(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 765 Mechanical Reliability and Probabilistic Design
3 cr. Graduate.
Advanced design theory and methodology incorporating probabilistic and statistical concepts. Design of mechanical and structural members for specific reliability and confidence level. Case histories and applications.
Prerequisites: grad st; MechEng 360(P) & 365(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 773 Advanced Dynamics
3 cr. Graduate.
General theory of dynamic behavior from the viewpoint of Lagrangian and Hamiltonian mechanics. Application of energy principles to dynamical analysis of mechanical systems.
Prerequisites: grad st; MechEng 580(P) or Civ Eng 580(P); or cons instr.
Course Rules: Not open to students who have cr in Civ Eng 773, which is identical.
Current Offerings: https://catalog.uwm.edu/course-search/
MECHENG 785 Optimization Methods in Engineering
3 cr. Graduate.
Optimization as engineering design tool; nonlinear programming; computational techniques for unconstrained and constrained problems; conjugate gradient, sumt, reduced gradient, feasible directions methods; design applications.
Prerequisites: grad st; ElecEng 234(P), CompSci 151(P) or equiv.
Course Rules: Not open to students who have cr in Ind Eng 785 which is identical to MechEng 785.
Last Taught: Fall 2019, Fall 2018, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 816 Optimal Control Theory
3 cr. Graduate.
Analysis and synthesis of discrete and continuous optimal control systems; linear quadratic regulators; dynamic programming and variational methods; applications.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 816 & MechEng 816 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 819 Adaptive Control Theory
3 cr. Graduate.
Adaptive control systems including mathematical foundations, estimation, model reference adaptive control, self tuning regulators, numerical methods, applications.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 819 & MechEng 819 are jointly offered and count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, Ind Eng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 890 Advanced Topics in Mechanical Engineering:
1-3 cr. Graduate.
Recent theoretical and applied developments in mechanical engineering. Topics selected from areas in thermal-fluid engineering, machine design and controls, and chemical process engineering.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: https://catalog.uwm.edu/course-search/

MECHENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Current Offerings: https://catalog.uwm.edu/course-search/

Military Science (MIL SCI)

MIL SCI 101 Military Physical Training and Conditioning I
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 102 Military Physical Training and Conditioning II
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: MIL SCI 101(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 110 Leadership and Personal Development
1 cr. Undergraduate.
Personal challenges and competencies that are critical for effective leadership and the structure of the ROTC.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 120 Introduction to Leadership
1 cr. Undergraduate.
Issues and competencies that are central to a commissioned officer's responsibilities.
Prerequisites: MIL SCI 110(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MIL SCI 201 Military Physical Training and Conditioning III
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 102(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 202 Military Physical Training and Conditioning IV
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 201(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 210 Foundations of Leadership
2 cr. Undergraduate.
The dimensions of creative and innovative tactical leadership strategies and styles.
Prerequisites: Mil Sci 120(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 220 Foundations of Tactical Leadership
2 cr. Undergraduate.
The challenges of leading teams in the complex operational environment.
Prerequisites: Mil Sci 210(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 301 Military Physical Training and Conditioning V
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 202(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 302 Military Physical Training and Conditioning VI
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 301(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 310 Adaptive Team Leadership
3 cr. Undergraduate.
The study, practice and application of Army leadership in team or squad situations.
Prerequisites: Mil Sci 220(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MIL SCI 320 Applied Team Leadership
3 cr. Undergraduate.
The study and practice of small unit tactics at the team and squad level.
Prerequisites: Mil Sci 310(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 1 Theory Fundamentals
2 cr. Undergraduate.
Basic music theory covering written proficiency at an introductory level. For music majors needing remedial work. Not for fulfillment of curriculum requirements.
Prerequisites: Music major or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 30 University Community Band
1 cr. Undergraduate.
A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students.
Prerequisites: Music major or minor.
Course Rules: Music 30 & 31 may be retaken to combined max of 10 sem. Audition required.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 40 Symphony Band
1 cr. Undergraduate.
Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.
Prerequisites: Music major or minor; audition; & cons instr.
Course Rules: Music 40 & 41 may be retaken to combined max of 10 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 42 Wind Ensemble
1 cr. Undergraduate.
Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours.
Prerequisites: Music major or minor; audition; & cons instr.
Course Rules: Music 42 & 43 may be retaken to combined max of 10 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 44 Alta Voce Singers
1 cr. Undergraduate.
Large choir of students who prefer to sing soprano or alto rehearses & performs music of various styles and cultures. Open to all students by audition.
Prerequisites: Music major or minor; or previous completion of one of the following: MUSIC 44(P), MUSIC 44(P), MUSIC 45(P), MUSIC 52(P), MUSIC 56(P), MUSIC 352(P), or MUSIC 395(P); or consent of instructor.
Course Rules: Music 44 & MUSIC 45 may be retaken to combined max of 10 cr. Audition required.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 50 Kameraden Chorus
1 cr. Undergraduate.
Large choir of students who prefer to sing tenor or bass rehearses & performs music of various styles and historical periods. Open to all students by audition.
Prerequisites: Music major or minor; or previous completion of one of the following: MUSIC 44(P), MUSIC 45(P), MUSIC 52(P), MUSIC 56(P), MUSIC 352(P), or MUSIC 395(P); or consent of instructor.
Course Rules: Music 44 & 45 may be retaken to combined max of 10 cr. Audition required.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 52 Bella Voce
1 cr. Undergraduate.
Highly select treble choir performs music of various styles, cultures, and historical periods. For students with significant choral experience.
Prerequisites: Music major or minor; or previous completion of one of the following: MUSIC 52(P), MUSIC 56(P), MUSIC 352(P), or MUSIC 395(P); or consent of instructor.
Course Rules: MUSIC 52 and MUSIC 352(53) may be retaken to combined max of 10 cr. Audition required.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 56 Concert Chorale
1 cr. Undergraduate.
This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.
Prerequisites: Music major or minor; audition; & cons instr.
Course Rules: Music 56 may be retaken to combined max of 10 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 52 Bella Voce
1 cr. Undergraduate.
Highly select treble choir performs music of various styles, cultures, and historical periods. Presents concerts on campus and national tours. Students chosen by competitive audition.
Prerequisites: Music major or minor; audition; & cons instr.
Course Rules: Music 52 & 43 may be retaken to combined max of 10 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 62 University Community Gospel Choir
1 cr. Undergraduate.
The gospel choir performs the music of the African-American culture in its many styles and genres. Auditions 1st week each sem.
Prerequisites: music major or minor; cons instr; audition.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 81 University Community Orchestra
2 cr. Undergraduate.
Composed primarily of non-music majors and community members; provides a continuing opportunity for rehearsal and performance.
Prerequisites: non-music major.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 100 Introduction to Classical Music
3 cr. Undergraduate.
A guide to musical enjoyment and understanding, including listening experiences in the various styles and forms of music, through assigned reading, the use of recorded music, sound films and attendance at concerts. Not accepted as part of a Music major.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 101 Fundamentals of Music
3 cr. Undergraduate.
An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for the general university student.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 102 American Popular Music
3 cr. Undergraduate.
A guide to understanding and enjoying American popular music from 1900 to the present. Students survey all popular genres and focus on chosen style.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 106 Foundations of Music
0 cr. Undergraduate.
Engage music major freshman in active discussion in academic and abstract ways necessary to formal music study.
Prerequisites: Freshman Music Majors only.
Course Rules: Fee for 1 cr assessed. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 107 Music Convocation
0 cr. Undergraduate.
A general assembly of the Department of Music held Fridays at 12:00 pm during the academic year. Includes musical presentations by Music Department faculty and students as well as guest events.
Prerequisites: Music majors only.
Course Rules: Fee for 1 cr assessed. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 108 The Concert Experience
3 cr. Undergraduate.
Meets, in part, concurrently with the Music Department Convocation (or similar concerts), concentrates on the concert as an event: history, traditions, form, make-up, and interpretation.
Prerequisites: none.
Course Rules: May not be used as part of the music req for music majors.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 120 Composition Colloquium:
0 cr. Undergraduate.
Guest lectures and workshops with visiting composers and performers presenting current compositional and aesthetic techniques.
Prerequisites: Music major or cons instr.
Course Rules: Fee for 1 cr assessed. May be retaken; 4 sem minimum required for composition majors.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 123 Aural Theory I
1 cr. Undergraduate.
Basic study of sight singing and dictation in diatonic music: solfege, diatonic melodies, primary harmonies, basic rhythms and beat divisions.
Aural application of Music 127.
Prerequisites: theory placement exam; Music major; Music 127(C) & Music 001(P) with grade of B or better or equiv.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 124 Aural Theory II
1 cr. Undergraduate.
The singing and dictation of melodies, progressions, and counterpoint with chromatic alteration, modulation, complex rhythmic patterns, 7th chords and inversions.
Aural application of Music 128.
Prerequisites: Music Major; Music 128(C), 123(P) & 127(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 127 Materials of Theory I
2 cr. Undergraduate.
Basic study of the elements and diatonic organization of music through music literature.
Prerequisites: theory placement exam; Music major; Music 123 (C) & Music 1(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 128 Materials of Theory II
3 cr. Undergraduate.
Intermediate study of the elements and chromatic organization of music through music literature.
Prerequisites: Music Major; Music 124(C) & 123(P); & 127(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 130 Beginning Piano Level I
3 cr. Undergraduate.
A practical introduction to the piano and musical notation, intended to serve as a sound foundation for further study.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 131 Beginning Piano Level II
3 cr. Undergraduate.
The varying uses of the piano is continued and expanded through reading, technique, interpretation, and theory as based on materials presented in Music 130.
Prerequisites: Music 130(P); cons instr.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 140 Class Voice Level I
3 cr. Undergraduate.
The group study of singing, including posture, breathing, resonance, range and projection through vocal exercises, varied song repertoire and solo singing.
Prerequisites: some knowledge of music helpful but not required; cons instr.
Course Rules: May be retaken to max of 4 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 141 Class Voice Level II
3 cr. Undergraduate.
Continuation for students completing Class Voice Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues.
Prerequisites: Music 140(P), or cons instr; & ability to read notation.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 142 Class Voice for Musical Theater Level I
2 cr. Undergraduate.
Fundamentals of vocal technique, including audition preparation and understanding of Musical Theater repertoire and style.
Prerequisites: Musical Theatre majors; cons. instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 143 Class Voice for Music Theatre Level II
2 cr. Undergraduate.
Continuation of Class Voice for Musical Theatre Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues.
Prerequisites: Music 142(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 150 Beginning Guitar
3 cr. Undergraduate.
Beginning class instruction on guitar as an accompanying instrument for folk and pop songs. Basic chording, strumming, and finger picking.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 151 Intermediate Guitar I
3 cr. Undergraduate.
Intermediate instruction on guitar. Finger picking, barre chord, bass runs, melody playing, and reading music.
Prerequisites: Music 150(345)(P); or cons instr.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 152 Intermediate Guitar II
3 cr. Undergraduate.
Students learn pieces ranging from popular to classical repertoire further developing position playing, movable chord forms, solo arrangements and accompaniment, accommodating students at a variety of levels.
Prerequisites: Music 151(P), or cons instr; & ability to read notation.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 181 University Community Orchestra
1 cr. Undergraduate.
Provides a continuing opportunity for rehearsal and performance for Music Majors playing secondary instrument(s).
Prerequisites: music major playing secondary instrument(s) or music minor; or consent of instructor.
Course Rules: Music 81 & 181 may be retaken to combined max of 10 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 182 Symphony Orchestra
1 cr. Undergraduate.
This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.
Prerequisites: Music major or minor; audition; and consent of instructor.
Course Rules: Music 182 & 82 may be retaken to combined max of 10 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 206 Jazz Fundamentals
2 cr. Undergraduate.
Introduction to rhythmic, melodic and harmonic materials related to jazz.
Prerequisites: admis to Jazz Studies prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 211 General History of Western Music I
3 cr. Undergraduate.
An introduction to the development of musical styles in western music through the end of the 17th century.
Prerequisites: soph st & 2 sem of music theory.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 212 General History of Western Music II
3 cr. Undergraduate.
The development of music through the 18th and 19th centuries, correlating period styles with contemporary history and other arts.
Prerequisites: soph st, 3 sem of music theory; & Music 211(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 220 Introduction to Computers and Music
3 cr. Undergraduate.
Introduction to digital audio, acoustics, psychoacoustics, electronic music composition, and history. Survey and application of software audio production tools through individual creative projects.
Prerequisites: Music major; previous experience in computers & music; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 225 Materials of Theory III
3 cr. Undergraduate.
Advanced study of the elements and extended chromatic organization of music through music literature.
Prerequisites: Music Major; Music 226(C) & Music 124(P), & 128(P) with grade of ‘C’ or better or equiv; successful completion of QL-A; or cons instr.
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 226 Aural Theory III
1 cr. Undergraduate.
Continuation of Music 124. Advanced work developing sight-singing and melodic, contrapuntal, and harmonic dictation as related to music literature. Aural application of Music 225.
Prerequisites: Music Major; Music 225(C); 124(P) & 128(P) with grade of ‘C’ or better or equiv.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 230 Form Analysis
3 cr. Undergraduate.
Study of the basic cells used for evolving musical structures. The two-part, three-part, and five-part song forms are analyzed, theme and variation form, song form with trio, sonata form, sonata allegro form, and the symphonic, concerto, and chamber music structures are discussed and analyzed.
Prerequisites: Music 225(P) & 226(P) with grade of ‘C’ or better or equiv.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 241 Guitar Technique
1 cr. Undergraduate.
Self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of Music 489 w/same topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 242 Fretboard Essentials
2 cr. Undergraduate.
Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios.
Prerequisites: Music major;
Course Rules: Counts as repeat of Music 280 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 243 Accompanying
1 cr. Undergraduate.
The piano as an accompanying instrument; study of basic principles of accompanying; sight reading and standard repertoire; transposition; laboratory experience.
Prerequisites: Music major; or cons instr, Music major.
Course Rules: Counts as repeat of Music 280 with same topic.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 244 Basic Diction in Singing
1 cr. Undergraduate.
Principles of the international phonetic alphabet as they apply to the english language and the singing of assigned vocal repertoire.
Prerequisites: admis to Musical Theatre prog; or cons instr.
Last Taught: Spring 2019, Spring 2017, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 245 Basic and Italian Lyric Diction
1 cr. Undergraduate.
Principles of Basic and Italian lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire.
Prerequisites: Music major; or cons instr.,
Last Taught: Fall 2019, Fall 2017, Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 246 German and French Lyric Diction
1 cr. Undergraduate.
Principles of German and French lyric diction as taught through use of the international phonetic alphabet, and the singing of assigned vocal repertoire.
Prerequisites: music major; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 247 French Diction in Singing
1 cr. Undergraduate.
Principles of French lyric diction as taught through use of the International Phonetic Alphabet and the singing of assigned vocal repertoire.
Prerequisites: soph st; Music 244(P) & 245(P); & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 248 Sight-Reading for Guitar I
1 cr. Undergraduate.
Skill development of sight-reading staff notation for the guitar.
Prerequisites: cons instr, Music major.
Course Rules: Counts as repeat of Music 280 with same topic.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 259 Accompanying
2 cr. Undergraduate.
The piano as an accompanying instrument; study of basic principles of accompanying; sight reading and standard repertoire; transposition; laboratory experience.
Prerequisites: junior standing or consent of instructor.
Last Taught: Spring 2020, Fall 2019, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 262 Ensemble - Piano
1-2 cr. Undergraduate.
Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 263 Ensemble - Beginning Percussion
1 cr. Undergraduate.
An introduction of percussion instruments to non-percussion music majors. Topics include: technique, percussion in world music, care and maintenance, composing and arranging, repertoire.
Prerequisites: Music major.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 266 Ensemble - Woodwind
1-2 cr. Undergraduate.
Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartet, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 268 Ensemble - Brass
1-2 cr. Undergraduate.
Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 271 Jazz Ensemble
1 cr. Undergraduate.
A performance and laboratory group for the study of jazz ensemble techniques.
Prerequisites: Music major or minor; or cons instr.
Course Rules: May be retaken to max of 10 cr.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 274 Guitar Repertoire and Ensemble
1 cr. Undergraduate.
Exploration of the guitar ensemble and solo literature. Performance laboratory.
Prerequisites: music majors or cons instr.
Course Rules: May be retaken to combined max of 8 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 275 Keyboard Performance Repertoire
1-2 cr. Undergraduate.
Section 1: piano. Section 2: organ. An analysis of applied piano or organ literature, including representative works from all periods.
Prerequisites: jr st & cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 276 Keyboard Performance Repertoire
1-2 cr. Undergraduate.
Section 1: piano. Section 2: organ. Continuation of Music 275.
Prerequisites: Music 275.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 278 Afro-Caribbean and Latin American Guitar Styles
2 cr. Undergraduate.
An overview of guitar accompaniment and lead styles used in various Latin-American and Caribbean genres.
Prerequisites: cons instr.
Course Rules: Counts as repeat of Music 489 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 280 Special Studies in Music:
1-3 cr. Undergraduate.
Specific topic will be announced in the Schedule of Classes when offered.
Prerequisites: none.
Course Rules: May be retaken for cr when course content is different.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 297 Study Abroad:
1-12 cr. Undergraduate.
Studio and special studies designed to provide relevant course work for a study abroad program in music.
Prerequisites: cons instr & acceptance for Study Abroad prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2019, Fall 2018, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 300 Literary Aspects of Rock and Roll
3 cr. Undergraduate.
Examines the evolution of the Rock and Roll song as an original American literary musical art form.
Prerequisites: Music 102(P), or cons instr.
General Education Requirements: A
Last Taught: Spring 2019, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 301 Music Theory for Interdisciplinary Studies
3 cr. Undergraduate.
An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for interdisciplinary arts students.
Prerequisites: jr st; admis to Inter-Arts/IAT prog; or cons instr.
Course Rules: Not accepted as part of a Music major.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 302 Jazz Theory I
2 cr. Undergraduate.
Beginning level study of jazz theory. Course will involve extensive composition, performance and analysis.
Prerequisites: admis to Jazz Studies prog or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 303 Jazz History
3 cr. Undergraduate.
History of jazz from its conception to the present day.
Prerequisites: admis to Jazz Studies prog or cons instr.
Last Taught: Spring 2015, Spring 2013, Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 304 Jazz Arranging
3 cr. Undergraduate.
Basic jazz arranging techniques for various size ensembles.
Prerequisites: admis to Jazz Studies prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 306 Jazz Theory II
2 cr. Undergraduate.
Advanced study of jazz theory. Course will involve extensive composition and analysis.
Prerequisites: Music 302(P).
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 307 General History of Western Music III
3 cr. Undergraduate.
The development of music at the end of the 19th century and throughout the 20th century, including art music in the western tradition and american popular and vernacular musics.
Prerequisites: jr st, Music 211(P), 212(P).
Last Taught: Spring 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 308 Selected Topics in Music History and Literature:
3 cr. Undergraduate/Graduate.
An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 semesters of music theory.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 308G Selected Topics in Music History and Literature:
3 cr. Undergraduate/Graduate.
An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 semesters of music theory.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 309 American Folk and Popular Music
2 cr. Undergraduate/Graduate.
A survey of American folk and popular music from 1750 to the present. Study of European and African music and their intersection in American musical forms.
Prerequisites: jr st or cons instr.
General Education Requirements: A
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 309G American Folk and Popular Music
2 cr. Undergraduate/Graduate.
A survey of American folk and popular music from 1750 to the present. Study of European and African music and their intersection in American musical forms.
Prerequisites: jr st or cons instr.
General Education Requirements: A
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 310 Introduction to World Musics
3 cr. Undergraduate/Graduate.
Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context.
Prerequisites: jr st, successful completion of OWC-A (English 102 or equiv); or cons instr.
General Education Requirements: A, OWCB
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 310G Introduction to World Musics
3 cr. Undergraduate/Graduate.
Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context.
Prerequisites: jr st, successful completion of OWC-A (English 102 or equiv); or cons instr.
General Education Requirements: A, OWCB
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 311 Music of the Baroque Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the Baroque era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 311G Music of the Baroque Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the Baroque era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 312 Music of the Classic Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the Classical era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 312G Music of the Classic Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the Classical era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 313 Music of the Romantic Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the Romantic era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 313G Music of the Romantic Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the Romantic era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 314 Music since 1900  
3 cr. Undergraduate/Graduate.  
A general or topical survey of music since 1900, in which selected composers and their compositions will be studied.  
**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 314G Music since 1900  
3 cr. Undergraduate/Graduate.  
A general or topical survey of music since 1900, in which selected composers and their compositions will be studied.  
**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.  
**Last Taught:** Spring 2020.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 317 Introduction to American Music  
3 cr. Undergraduate/Graduate.  
Introductory survey of folk, indigenous, popular and art music of the United States.  
**Prerequisites:** jr st or grad st.  
**Last Taught:** Fall 2010.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 317G Introduction to American Music  
3 cr. Undergraduate/Graduate.  
Introductory survey of folk, indigenous, popular and art music of the United States.  
**Prerequisites:** jr st or grad st.  
**Last Taught:** Fall 2010.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 321 Counterpoint  
3 cr. Undergraduate.  
Introduction to species counterpoint and contrapunhal techniques in music. Study of and exercises in contrapuntally oriented musical structures: passacaglia, chaconne, chorale prelude, canon, and fugue.  
**Prerequisites:** Music 230(P).  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 321G Counterpoint  
3 cr. Undergraduate.  
Introduction to species counterpoint and contrapunhal techniques in music. Study of and exercises in contrapuntally oriented musical structures: passacaglia, chaconne, chorale prelude, canon, and fugue.  
**Prerequisites:** Music 230(P).  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 323 Instrumental and Choral Orchestration  
3 cr. Undergraduate.  
Techniques of arranging for voice, strings, woodwinds, brass, and percussion. Study of representative scores, demonstrations of suitable arrangements.  
**Prerequisites:** Music 225(P), 226(P), & 220(P) for composition majors, (R) for others; or knowledge of computer music notation as determined by instr.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 326 Advanced Aural Theory  
1 cr. Undergraduate/Graduate.  
Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music.  
**Prerequisites:** jr st; Music 225(P) & 226(P).  
**Last Taught:** Spring 2015, Spring 2013.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 326G Advanced Aural Theory  
1 cr. Undergraduate/Graduate.  
Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music.  
**Prerequisites:** jr st; Music 225(P) & 226(P).  
**Last Taught:** Spring 2015, Spring 2013.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 327 Analog and Digital Synthesis I  
3 cr. Undergraduate/Graduate.  
Introduction to analog and digital electronic sound synthesis, recording and audio mixing, acoustics and electronic music history. Individual work in analog and digital music studios.  
**Prerequisites:** jr st, music major; or cons instr; Music 220(R).  
**Last Taught:** Spring 2020, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 327G Analog and Digital Synthesis I  
3 cr. Undergraduate/Graduate.  
Introduction to analog and digital electronic sound synthesis, recording and audio mixing, acoustics and electronic music history. Individual work in analog and digital music studios.  
**Prerequisites:** jr st, music major; or cons instr; Music 220(R).  
**Last Taught:** Spring 2020, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 328 Digital Synthesis and Systems II  
3 cr. Undergraduate/Graduate.  
Application of digital sound media and advanced midi; computing, synthesis, synthesizers, sampling, digital recording and editing methods. Individual projects utilizing the digital music studios.  
**Prerequisites:** jr st; Music major; Music 327(P); previous experience in computers & music; or cons instr.  
**Last Taught:** Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 328G Digital Synthesis and Systems II  
3 cr. Undergraduate/Graduate.  
Application of digital sound media and advanced midi; computing, synthesis, synthesizers, sampling, digital recording and editing methods. Individual projects utilizing the digital music studios.  
**Prerequisites:** jr st; Music major; Music 327(P); previous experience in computers & music; or cons instr.  
**Last Taught:** Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 330 Improvisation I  
1 cr. Undergraduate.  
Beginning application of rhythmic, melodic and harmonic materials related to jazz improvisation.  
**Prerequisites:** cons instr.  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

MUSIC 331 Improvisation II  
1 cr. Undergraduate.  
Intermediate application of rhythmic, melodic and harmonic materials related to jazz improvisation.  
**Prerequisites:** Music 330(R); or cons instr.  
**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
MUSIC 334 University Community Band
3 cr. Undergraduate.
A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students.
Prerequisites: non-Music major.
Course Rules: Music 30 & 334(31) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 340 Symphony Band
3 cr. Undergraduate.
Symphony band performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.
Prerequisites: non-Music major; audition; & cons instr.
Course Rules: Music 40 & 340(41) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 342 Wind Ensemble
3 cr. Undergraduate.
Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours.
Prerequisites: non-Music major; audition; & cons instr.
Course Rules: Music 42 & 342 'Wind Ensemble' may be retaken to combined max of 10 sem.
Last Taught: Spring 2019, Spring 2015, Spring 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 348 Sight-Reading for Guitar II
1 cr. Undergraduate.
Solutions for accurate sight-reading of style-specific repertoire.
Prerequisites: cons instr, Music major
Course Rules: Counts as repeat of Music 280 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 349 Classical Guitar History and Literature
3 cr. Undergraduate.
A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries.
Prerequisites: jr st; Music 226(P); 248(R), 348(R); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 350 Kameraden Chorus
3 cr. Undergraduate.
Large choir of students who prefer to sing tenor or bass rehearses & performs music of various styles and historical periods.
Prerequisites: consent of instructor.
Course Rules: MUSIC 50 and MUSIC 350 may be retaken to combined max of 10 credits. Audition required.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 352 Bella Voce
3 cr. Undergraduate.
Highly select treble choir performs music of various styles, cultures, and historical periods. For students with significant choral experience.
Prerequisites: non-Music major and consent of instructor.
Course Rules: MUSIC 52 and MUSIC 352 may be retaken to combined max of 10 cr. Audition required.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 353 Conducting
2 cr. Undergraduate.
Continuation of Music 353 with emphasis on conducting techniques: study and analysis of orchestral or wind band scores, with practical application for music education and performance majors.
Prerequisites: Music 353(P) or 253(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 354 Instrumental Conducting
2 cr. Undergraduate.
Advanced techniques of gesture, score study, style periods and performance practice, rehearsal and vocal techniques.
Prerequisites: Music Major; Music 353(P); Mus Ed 462(C); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 357 Choral Conducting
2 cr. Undergraduate.
Opportunity for pianists to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 361 Ensemble - Piano
1-2 cr. Undergraduate.
Opportunity for woodwind students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for credit.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 367 Ensemble - Brass
1-2 cr. Undergraduate.
Opportunity for brass students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: Music major or minor; or consent of instructor.
Course Rules: Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for credit.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 369 Ensemble - Strings
1-2 cr. Undergraduate.
Opportunity for string students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: Music major minor; or consent of instructor.
Course Rules: Open to advanced performers on stringed instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 370 Chamber Ensemble - Mixed
1-2 cr. Undergraduate.
Opportunity for students of mixed instrument families to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers of all instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 377 Song Literature I: Italy, Germany, France, Great Britain
2 cr. Undergraduate.
Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.
Prerequisites: 2 yrs collegiate voice study & cons instr.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 378 Song Literature II: United States and Select European Countries
2 cr. Undergraduate.
Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester. Given alternate years in spring semester.
Prerequisites: 2 yrs collegiate voice study & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 382 Symphony Orchestra
3 cr. Undergraduate.
This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.
Prerequisites: non-Music major; audition; & cons instr.
Course Rules: Music 182 & 382(82) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 395 Concert Chorale
3 cr. Undergraduate.
This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.
Prerequisites: non-Music major; sophomore standing or higher; cons instr; audition.
Course Rules: Music 395(57) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 402 Jazz Combo
1-2 cr. Undergraduate.
Study of jazz music's origin, development and styles from early forms to contemporary trends. Emphasis on playing various styles in sequential periods of jazz history.
Prerequisites: cons instr. Jazz Studies majors enrol for 2 cr, all others enrol for 1 cr.
Course Rules: May be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 404 Improvisation III
1 cr. Undergraduate.
Application of melodic and harmonic materials of jazz to the keyboard.
Prerequisites: Music 331(R) or inst cons.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 405 Improvisation IV
1 cr. Undergraduate.
Continued advanced application of rhythmic, melodic and harmonic materials related to jazz improvisation.
Prerequisites: Music 404 (R); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 409 Folk Music in Contemporary Culture
3 cr. Undergraduate.
American Folk Music and its impact on contemporary culture.
Prerequisites: jr st, Music 102(P); or cons instr.
Course Rules: Counts as repeat of Music 280/680 with the same topic.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 409G Folk Music in Contemporary Culture
3 cr. Undergraduate/Graduate.
American Folk Music and its impact on contemporary culture.
Prerequisites: jr st, Music 102(P); or cons instr.
Course Rules: Counts as repeat of Music 280/680 with the same topic.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 410 Topics in World Music:
3 cr. Undergraduate/Graduate.
Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.
Prerequisites: jr st & Music 310(P); or grad st or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 410G Topics in World Music:
3 cr. Undergraduate/Graduate.
Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.
Prerequisites: jr st & Music 310(P); or grad st or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 415 Choral Literature Survey
2 cr. Undergraduate.
A historical overview of choral literature with emphasis on major composers and styles of each period. Repertoire studied is selected from the WSMA Contest list.
Prerequisites: jr st; Music major; Music 230(P); Music 357(C); Mus Ed 462(C); & cons instr.
Last Taught: Spring 2016, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 420 Advanced Computing and Music
3 cr. Undergraduate/Graduate.
Advanced application of microcomputers in midi, digital synthesis, electronic orchestration, and varied media interfaces as applied to composition. Individual work in computer music lab
Prerequisites: jr st; music major; Music 220(P); previous experience in computers & music; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 420G Advanced Computing and Music
3 cr. Undergraduate/Graduate.
Advanced application of microcomputers in midi, digital synthesis, electronic orchestration, and varied media interfaces as applied to composition. Individual work in computer music lab
Prerequisites: jr st; music major; Music 220(P); previous experience in computers & music; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 421 Materials of Contemporary Music
3 cr. Undergraduate/Graduate.
Study and analysis of the techniques and styles in contemporary music.
Prerequisites: jr st & Music 230(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 421G Materials of Contemporary Music
3 cr. Undergraduate/Graduate.
Study and analysis of the techniques and styles in contemporary music.
Prerequisites: jr st & Music 230(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 424 Vocal Pedagogy I
2 cr. Undergraduate/Graduate.
Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.
Prerequisites: jr st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 424G Vocal Pedagogy I
2 cr. Undergraduate/Graduate.
Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.
Prerequisites: jr st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 425 Vocal Pedagogy II
2 cr. Undergraduate/Graduate.
Advanced techniques for vocal teaching; including anatomy, pedagogic observation and advanced study of acoustics explore their relationship to voice pedagogue, laryngologists/speech-language pathologists, and vocal pathology.
Prerequisites: jr st; Music 444(446)(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 425G Vocal Pedagogy II
2 cr. Undergraduate/Graduate.
Advanced techniques for vocal teaching; including anatomy, pedagogic observation and advanced study of acoustics explore their relationship to voice pedagogue, laryngologists/speech-language pathologists, and vocal pathology.
Prerequisites: jr st; Music 444(446)(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 426 String Pedagogy in the Studio
2 cr. Undergraduate/Graduate.
Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc.). Information delivery techniques, master teacher profile, recent trends.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 426G String Pedagogy in the Studio
2 cr. Undergraduate/Graduate.
Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc.). Information delivery techniques, master teacher profile, recent trends.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 448 Piano Pedagogy
2 cr. Undergraduate.
Techniques for training the elementary level piano student, derived from the study of methods and materials, discussion and guest lectures. Given alternate years.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 449 Women in Music:
3 cr. Undergraduate/Graduate.
Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 449G Women in Music:
3 cr. Undergraduate/Graduate.
Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 450 Introduction to Musicology
3 cr. Undergraduate/Graduate.
Study of the development of modern musicological methodology and its fields of research including ethnomusicology.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 450G Introduction to Musicology
3 cr. Undergraduate/Graduate.
Study of the development of modern musicological methodology and its fields of research including ethnomusicology.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 452 Collegium Musicum
1-2 cr. Undergraduate/Graduate.
Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century.
Prerequisites: Music major or minor; or consent of instructor.
Course Rules: Music majors enroll for 1 credit per semester; others for 1 or 2 credits.
General Education Requirements: A
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 452G Collegium Musicum
1-2 cr. Undergraduate/Graduate.
Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century.
Prerequisites: Music major or minor; or consent of instructor.
Course Rules: Music majors enroll for 1 credit per semester; others for 1 or 2 credits.
General Education Requirements: A
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 454 Contemporary Music Ensemble
1 cr. Undergraduate.
Study of various forms in contemporary music, with an emphasis on indeterminacy and improvisation. Works composed in the course are performed on a concert during the semester.
Prerequisites: Music major or minor; or consent of instructor.
Course Rules: May be retaken to 4 cr max.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 457 Opera Theatre
0-3 cr. Undergraduate/Graduate.
A concentrated study of the literature and techniques for the musical stage.
Prerequisites: Music major or minor; or consent of instructor & major teacher.
Course Rules: May be retaken to max of 4 semesters. Students not needing cr should enroll for 0 credit; those needing 1-3 credit(s) should enroll for a specific number of credits. Students who enroll for 0 cr will be assessed a fee for 1 credit.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 457G Opera Theatre
0-3 cr. Undergraduate/Graduate.
A concentrated study of the literature and techniques for the musical stage.
Prerequisites: Music major or minor; or consent of instructor & major teacher.
Course Rules: May be retaken to max of 4 semesters. Students not needing cr should enroll for 0 credit; those needing 1-3 credit(s) should enroll for a specific number of credits. Students who enroll for 0 cr will be assessed a fee for 1 credit.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 478 Finger-Style Guitar: History and Performance
3 cr. Undergraduate.
Through multi-media lecture/presentations and hands-on instruction, this class will familiarize students with the history and performance of finger-style guitar.
Prerequisites: cons instr, Music major.
Course Rules: Counts as repeat of Music 280 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 489 Workshop:
1-4 cr. Undergraduate/Graduate.
Specific topic announced in the Schedule of Classes.
Prerequisites: jr st; additional prereq announced each offering.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 489G Workshop:
1-4 cr. Undergraduate/Graduate.
Specific topic announced in the Schedule of Classes.
Prerequisites: jr st; additional prereq announced each offering.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Studio and special studies designed to provide relevant course work for a study abroad program in music.
Prerequisites: jr st; cons instr & acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Studio and special studies designed to provide relevant course work for a study abroad program in music.
Prerequisites: jr st; cons instr & acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 509 Certificate Program in Rock and Roll Studies Capstone
3 cr. Undergraduate.
Individual rock and roll studies projects facilitated by critiques and work sessions.
Prerequisites: min 12 cr of core and elective curriculum of Rock and Roll Studies curriculum, or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 520 Voice Performance in Popular Music Styles
2 cr. Undergraduate.
Opportunities for singers to engage with various musical styles within the genre of Contemporary Commercial Music.
Prerequisites: Music major and concurrently enrolled in applied voice lessons; or consent of instructor.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 553 Advanced Conducting I
2 cr. Undergraduate/Graduate.
Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from the standard repertoire.
Prerequisites: sr st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 553G Advanced Conducting I
2 cr. Undergraduate/Graduate.
Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from the standard repertoire.
Prerequisites: sr st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 554 Advanced Conducting II
2 cr. Undergraduate/Graduate.
Continuation of Music 553.
Prerequisites: sr st, Music 553(P) & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 554G Advanced Conducting II
2 cr. Undergraduate/Graduate.
Continuation of Music 553.
Prerequisites: sr st, Music 553(P) & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 559 The Wind Band: Its History and Literature
3 cr. Undergraduate/Graduate.
Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 559G The Wind Band: Its History and Literature
3 cr. Undergraduate/Graduate.
Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 561 Advanced Chamber Music
1-3 cr. Undergraduate/Graduate.
Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc.)
Prerequisites: Music major or minor; or consent of instructor.
Course Rules: Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 561G Advanced Chamber Music
1-3 cr. Undergraduate/Graduate.
Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc.)
Prerequisites: Music major or minor; or consent of instructor.
Course Rules: Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 611 Music of the Medieval Era
3 cr. Undergraduate/Graduate.
A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices.
Prerequisites: jr st; Music 211(P), 212(P), 307(P), & 4 sem Music theory.
Last Taught: Spring 2012, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 611G Music of the Medieval Era
3 cr. Undergraduate/Graduate.
A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices.
Prerequisites: jr st; Music 211(P), 212(P), 307(P), & 4 sem Music theory.
Last Taught: Fall 2016, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 612 Music of the Renaissance and Early Modern Era
3 cr. Undergraduate/Graduate.
A general or topical survey of renaissance and early modern music, including the study of representative works, renaissance theory and performance practices.
Prerequisites: jr st; Music 211(P), 212(P), 307(P) & 4 sem Music theory.
Last Taught: Fall 2016, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 612G Music of the Renaissance and Early Modern Era
3 cr. Undergraduate/Graduate.
A general or topical survey of renaissance and early modern music, including the study of representative works, renaissance theory and performance practices.
Prerequisites: jr st; Music 211(P), 212(P), 307(P) & 4 sem Music theory.
Last Taught: Fall 2016, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 620 Advanced Percussion Pedagogy
1-2 cr. Undergraduate/Graduate.
Techniques for developing and teaching mallet and stick control. Model lesson procedures; methods, music (solo and ensemble) and equipment selection.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 620G Advanced Percussion Pedagogy
1-2 cr. Undergraduate/Graduate.
Techniques for developing and teaching mallet and stick control. Model lesson procedures; methods, music (solo and ensemble) and equipment selection.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 659 Junior Recital
0 cr. Undergraduate.
Independent supervised preparation and performance on recital program as determined by performance instructor.
Prerequisites: jr st; cons instr.
Course Rules: Fee for 1 cr assessed.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 660 Senior Recital:
0-2 cr. Undergraduate.
Independent supervised preparation and performance in recital to fulfill degree requirements.
Prerequisites: sr st & recital hearing before area faculty.
Course Rules: Students in the multiple woodwinds performance major may fulfill the requirement for two senior recitals (1 cr for primary instrument and 2 cr for secondary instrument) by enrolling in two sections of Music 660 during the same sem. Students not needing cr should enroll for 0 cr; those needing 1-2 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed fee for 1 credit. May be retaken to max of 3 cr or two sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 680 Special Studies in Music:
1-3 cr. Undergraduate/Graduate.
Specific topic will be announced in Schedule of Classes when offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 680G Special Studies in Music:
1-3 cr. Undergraduate/Graduate.
Specific topic will be announced in Schedule of Classes when offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 691 Senior Thesis
2 cr. Undergraduate/Graduate.
Prerequisites: sr st. Not available for grad cr at this time.
Last Taught: Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 691G Senior Thesis
2 cr. Undergraduate/Graduate.
Prerequisites: sr st. Not available for grad cr at this time.
Last Taught: Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 693 Apprenticeship:
1-4 cr. Undergraduate/Graduate.
Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee.
Prerequisites: jr st; cons curric comm.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 693G Apprenticeship:
1-4 cr. Undergraduate/Graduate.
Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee.
Prerequisites: jr st; cons curric comm.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 699 Advanced Independent Work (Undergraduate)  
1-3 cr. Undergraduate.  
Enroll for a specific number of credits.  
Prerequisites: cons dept chair.  
Course Rules: May be retaken for cr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 703 Graduate Theory Review  
3 cr. Graduate.  
A course for graduate students to include tonal/atonal theory, keyboard  
harmony, sight singing and ear training. The course may not be taken to  
fulfill a graduate music degree requirement.  
Prerequisites: grad st; recom of theory faculty.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 704 Graduate Music History  
3 cr. Graduate.  
An intensive study of selected musical styles and representative  
repertory in the western tradition from the middle ages through the  
present, with a focus on listening and score study, the comparison  
of musical styles from different periods, and discussion of important  
historical trends.  
Prerequisites: grad st; recom of music history faculty.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 710 Graduate Studies in Music  
3 cr. Graduate.  
Bibliography and methods for research and paper writing in the field of  
music.  
Prerequisites: grad st.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 711 Graduate Seminar in Music History:  
3 cr. Graduate.  
Topics vary. An in-depth study of selected musical works, focusing on a  
close analysis of scores, historical research, and paper writing. Specific  
topics and any additional prerequisites announced in schedule of classes  
each time course is offered.  
Prerequisites: grad st & Music 710.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 715 Choral Literature  
3 cr. Graduate.  
In-depth investigation of choral repertoire from 1450 to present day,  
including a study of major genres, composers, styles, and performance  
practice.  
Prerequisites: grad st.  
Last Taught: Fall 2019, Fall 2016, Spring 2014, Spring 2012.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 717 Violin and Viola Pedagogy Level I  
2 cr. Graduate.  
A systematic methodology for taking a student through the formative  
stages of violin and viola playing. Lecture classes, observation or group  
and individual lessons, supervised teaching in lab setting.  
Prerequisites: grad st; Music 722(P); or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 718 Violin and Viola Pedagogy Level II  
2 cr. Graduate.  
A systematic methodology for taking a student from the formative stages  
of violin and viola playing through the technically and musically more  
advanced levels. Lecture classes, observation of group and individual  
instruction, supervised teaching in lab setting.  
Prerequisites: grad st; music major; Music 718(P); or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 719 Violin and Viola Pedagogy Level III  
2 cr. Graduate.  
Advanced emphasis on the teaching of advanced scales, significant  
violin etudes and major repertoire. Lecture and demonstration classes,  
observation of group and individual instruction, supervised teaching in  
lab setting.  
Prerequisites: grad st; Music 719(P); or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 720 Violin Pedagogy Level I  
2 cr. Graduate.  
Advanced emphasis on the teaching of advanced scales, significant  
violin etudes (Kreutzer & Campagnoli), orchestral excerpts as teaching  
etudes, and selected study of advanced viola repertoire. Lecture and  
demonstration classes, observation of group and individual lessons,  
supervised teaching in lab setting.  
Prerequisites: grad st; Music 720(P); or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 721 Viola Pedagogy Level I  
2 cr. Graduate.  
Advanced emphasis on the teaching of advanced scales, significant  
viola etudes, and selected study of advanced viola repertoire. Lecture and  
demonstration classes, observation of group and individual instruction,  
supervised teaching in lab setting.  
Prerequisites: grad st; Music 721(P); or cons instr.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 722 Cello Pedagogy Level I  
2 cr. Graduate.  
A systematic methodology for taking a student from the first lessons  
through the formative stage of cello playing. Lecture classes, observation  
of group and individual lessons, supervised teaching in lab setting.  
Prerequisites: grad st or cons instr.  
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/  

MUSIC 723 Cello Pedagogy Level II  
2 cr. Graduate.  
A systematic methodology for taking a student from the formative stage  
of cello playing through the technically and musically more advanced  
level. Specific skills include how to teach vibrato and shifting. Lecture  
classes, observation of group and individual instruction, supervised  
teaching in lab setting.  
Prerequisites: grad st; Music 722(P); or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 724 Cello Pedagogy Level III
2 cr. Graduate.
Advanced emphasis on the teaching of advanced scales, significant etudes and selected study of major repertoire. Lecture and demonstration classes; observation of group and individual instruction, supervised teaching in a lab setting.
Prerequisites: grad st; Music 723(P); or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 730 University Community Band
1 cr. Graduate.
A concert band that performs concerts on and off campus. Designed as a continuing playing experience for students. Music 730 may be retaken to combined max of 6 sem.
Prerequisites: grad st; cons instr; audition.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 731 Contemporary Composition Techniques
3 cr. Graduate.
Contemporary compositional techniques; their theoretical, aesthetic, and historical relationship. Advanced analysis of scores utilizing these techniques.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 732 Score Reading
3 cr. Graduate.
Reading at the piano from full score. Procedure and practice in piano reduction are studied and applied. The classical, romantic, and contemporary periods are emphasized.
Prerequisites: grad st; some ability at keyboard.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 740 Symphony Band
1 cr. Graduate.
Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.
Prerequisites: grad st & cons instr.
Course Rules: For Music majors with advanced playing experience.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 741 Guitar Technique
1 cr. Graduate.
Class provides self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch.
Prerequisites: grad st; or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 742 Fretboard Essentials
2 cr. Graduate.
Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios.
Prerequisites: grad st; or cons instr.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 744 Graduate Theory Seminar
3 cr. Graduate.
Current theoretical approaches to a wide range of musical styles.
Prerequisites: grad st; diagnostic test or Music 703 with grade of B or better.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 749 Classical Guitar History and Literature
3 cr. Graduate.
A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 750 University Men's Choir
1 cr. Graduate.
Large men's/mixed chorus rehearses and performs both men's and mixed-voice choral music of various styles, cultures, and historical periods. Open to all men by audition. Voice placements will take place in the 1st wk each semester. May be retaken to combined max of 6 sem.
Prerequisites: audition; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 751 Advanced Piano Repertoire I
2 cr. Graduate.
Advanced study of the piano repertoire, including works of all representative periods.
Prerequisites: grad st; Music 276.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 752 Advanced Piano Repertoire II
2 cr. Graduate.
Advanced study of the piano repertoire, including works of all representative periods.
Prerequisites: grad st; Music 751(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 753 Advanced Song Literature I
2 cr. Graduate.
Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.
Prerequisites: grad st & cons instr.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 754 Advanced Song Literature II
2 cr. Graduate.
Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester.
Prerequisites: grad st; Music 753(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 755 Advanced Instrumental Repertoire I: Strings
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for string instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 756 Advanced Instrumental Repertoire II: Strings
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for string instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 757 Advanced Instrumental Repertoire I: Brass and Woodwinds
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for brass and woodwind instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 758 Advanced Instrumental Repertoire II: Brass and Woodwinds
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for brass and woodwind instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 762 Contemporary Music Ensemble
3 cr. Graduate.
For music majors with advanced instrumental and vocal competence. Rehearsals and concert series devoted to complex works by contemporary composers.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 763 Advanced Percussion Performance Repertoire
2 cr. Graduate.
A comprehensive study of the solo and ensemble repertoire for tympani/percussion through study, performance and listening.
Prerequisites: grad st; Music 279 or cons instr.
Last Taught: Fall 2011, Spring 2000, Fall 1999, Fall 1990.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 765 Advanced Instrumental Repertoire I: Guitar
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for guitar through study, performance, and listening.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 766 Advanced Instrumental Repertoire II: Guitar
2 cr. Graduate.
Continuing study of solo and ensemble literature for guitar through study, performance, listening.
Prerequisites: grad st; Music 765(P); cons instr
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 769 Graduate Choral Conducting I
2 cr. Graduate.
Study of conducting problems in choral works of divergent styles/periods. Projects assigned to meet specific student need.
Prerequisites: grad st; admis to MM choral perf or music ed (choral emphasis); UG choral cond course(s); prof cond exp; cons instr
Last Taught: Spring 2020, Fall 2018, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 770 Graduate Choral Conducting II
2 cr. Graduate.
Continuing study of conducting problems in choral works of divergent styles/periods. Projects assigned to meet specific student need.
Prerequisites: grad st; Music 769(P) or 553(P); cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 771 Graduate Choral Conducting III
2 cr. Graduate.
Advanced analysis of architectural, stylistic and gestural concerns in choral works of divergent styles/periods. Projects assigned to meet specific student need. Supervised conducting time with student’s own ensemble.
Prerequisites: grad st; Music 770(P) or 554(P).
Last Taught: Fall 2019, Fall 2016, Spring 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 772 Advanced Instrumental Conducting
2 cr. Graduate.
Study of conducting problems in instrumental works of all periods. Projects will be assigned to meet the background and needs of students. Practical experience will be gained by conducting university groups.
Prerequisites: grad st & Music 554.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 781 University Community Orchestra
1 cr. Graduate.
Rehearsal and performance of orchestral music. Intended for non-music majors, music majors playing their secondary instrument, and community members.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 782 Symphony Orchestra
1 cr. Graduate.
For music majors with advanced playing experience. Rehearsals are devoted to reading orchestral literature of the 18th, 19th, and 20th centuries.
Prerequisites: grad st & cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 789 Wind Ensemble
1 cr. Graduate.
Prerequisites: grad st & cons instr.
Course Rules: For Music majors with advanced playing experience.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 795 Concert Chorale
1 cr. Graduate.
This highly select mixed ensemble performs advanced level music from all periods of choral literature, utilizing instruments when appropriate. Auditions take place during the first week of each new semester.
Prerequisites: grad st; audition & cons instr.
Course Rules: May be retaken to combined max of 6 sem.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 797 Vocal Jazz Ensemble
1 cr. Graduate.
Jazz arrangements of standard popular songs, including ballads, swing, bebop, and current fusion styles, performed with rhythm section accompaniment.
Prerequisites: grad st, cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 798 University Advanced Women's Choir
1 cr. Graduate.
For women with significant choral experience; audition required.
Prerequisites: grad st, cons instr; audition.
Course Rules: Voice placements take place during first week of each new semester. May be retaken to combined max of 6 sem.
Last Taught: Spring 2019, Fall 2018, Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 799 Advanced Independent Work
1-3 cr. Graduate.
The student must apply for scheduling advanced independent work with the graduate committee, if possible during the semester preceding the project.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 806 Chamber Music Master Class
1 cr. Graduate.
Student participation and stage performance of chamber music with discussion of critiques by institute faculty and guest artists.
Prerequisites: grad st; admis to ICM, writ cons director of ICM.
Course Rules: May be repeated to max of 4 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 811 Seminar In Baroque Music
3 cr. Graduate.
Investigation of problems of the Music of the Baroque era with reference to the evolution of musical styles in Western Europe from 1600-1750.
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 829 Seminar: Historical Perspectives On Violin, Viola And Cello Pedagogy
2 cr. Graduate.
Traces evolution of modern instruments and teaching methods, and explores interdisciplinary tools and resources for the string teacher.
Prerequisites: grad st; Music 720(P), 721(P), 724(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 835 Chamber Music Coaching
2 cr. Graduate.
Weekly ensemble coaching by ICM faculty and guest artists. Public performance required.
Prerequisites: grad st; admis to ICM; writ cons director of ICM.
Course Rules: May be repeated to a max of 8 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 911 Seminar In Musicology I
3 cr. Graduate.
Research seminar devoted to the investigation of musical problems. May serve as a basis for developing thesis projects, research papers, and lecture-recitals.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 990 Research of Thesis
1-3 cr. Graduate.
Thesis or thesis equivalent in music history, recital, lecture-recital, public performance, or composition. Approval of subject and assignment to staff member by the graduate committee.
Prerequisites: grad st.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSIC 991 Recital And Lecture Demonstration
1 cr. Graduate.
Public recital and lecture demonstration for string pedagogy students. Approval of subject by student’s major teacher and the music graduate committee required.
Prerequisites: grad st; cons instr
Course Rules: Open only to string pedagogy students.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSIC 999 Research (Independent Work)
1-3 cr. Graduate.
Approval of project and assignment to staff member by graduate committee.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

Music Education (MUS ED)

MUS ED 249 Diction Survey
2 cr. Undergraduate.
Survey of Diction for Music Education. An in-depth study of IPA covering Germanic, Romance, and other languages as needed.
Prerequisites: none.
Last Taught: Fall 2016, Fall 2015, Spring 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 260 Making Music Connections with Children
3 cr. Undergraduate.
Experiencing music through interactive participation by singing, listening, moving, creating, and playing classroom instruments. Collaboratively teach multiethnic music for children in class.
Prerequisites: jr st; admis to School of Educ; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 331 Keyboard Skills for Music Educators I
1 cr. Undergraduate.
Functional use of the keyboard for accompanying, sight reading and improvising
Prerequisites: Music Major; Music 128(P) with grade of 'C-' or better or equiv; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 332 Keyboard Skills for Music Educators II
1 cr. Undergraduate.
Functional use of the keyboard for accompanying and reading open score.
Prerequisites: Mus Ed 331(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 350 Introduction to Teaching Music
2 cr. Undergraduate.
Exploration of the profession of music teaching including observation in area music programs. Successful exit audition required for admission to the certification program.
Prerequisites: Music Major; Music 124(P); & 128(P).
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 351 Folk Instrument Techniques for the Music Classroom
2 cr. Undergraduate.
Practical experience with folk and recreational-instruments, e.g., autoharp, dulcimer, guitar. Methods and materials for use with children and adults.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Spring 2019, Fall 2017, Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 352 Technology in Music Education
2 cr. Undergraduate.
Awareness of music education software and hardware to incorporate technology into planning, implementation and assessment of musical learning experiences.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 385 Guitar Pedagogy
2 cr. Undergraduate.
Studies in the pedagogy of guitar for class and private studios.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 450 Field Experience in Music Education
2 cr. Undergraduate.
Experience working with diverse student populations in cooperating schools to address issues of urban teaching.
Prerequisites: Music Major; admis to teacher cert prog.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 451 Teaching Instrumental Music: Elementary and Middle Levels
2 cr. Undergraduate.
Group ensemble pedagogical techniques in elementary and middle schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of instrumental music.
Prerequisites: Music Major; admis to teacher cert prog.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 452 String Pedagogy
1 cr. Undergraduate.
Survey of string pedagogy, methods, and materials.
Prerequisites: Music Major; admis to teacher cert prog; 1 sem of stringed instrument; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 455 Positive Approaches: Music Education Classroom Management
1 cr. Undergraduate.
Stimulate thinking as evidenced by verbalizations demonstrating ability to logically analyze and criticize behavior.
Prerequisites: admis to teacher cert. prog.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 458 Musicals and Choirs for Young Voices
2 cr. Undergraduate.
Explore musical literature and techniques for choirs in the elementary grades. Design your own musical and assess the educational value of published materials.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MUS ED 460 Teaching Elementary General Music
3 cr. Undergraduate.
Methods, materials, and observation of teaching general music in grades pre K-5.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 461 Teaching Secondary General Music
2 cr. Undergraduate.
Methods and materials for teaching classroom music; work with creating, performing, and listening techniques; model course designs, related arts-humanities format; and appropriate resources. Sixth grade through adult.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 462 Teaching Secondary Choral Music
3 cr. Undergraduate.
Methods and techniques for teaching choral music; work with organization choral program, auditioning, choosing music, program planning; rehearsal techniques, public relations, and setting up a choral library. Sixth grade through adult.
Prerequisites: Music Major; admis to teacher cert prog; Music 357(C); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 463 Teaching Instrumental Music: Secondary
2 cr. Undergraduate.
Group ensemble pedagogical techniques in secondary schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of the instrumental music program.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Fall 2019, Spring 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 477 Student Teaching in Music - Elementary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 478 Student Teaching in Music - Secondary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 479 Seminar in Student Teaching
1 cr. Undergraduate.
A seminar meeting to review teacher field observations, portfolio development, and preparation of resume and job application materials.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 479 Seminar in Student Teaching
1 cr. Undergraduate.
A seminar meeting to review teacher field observations, portfolio development, and preparation of resume and job application materials.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 478 Student Teaching in Music - Secondary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 477 Student Teaching in Music - Elementary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 476 Student Teaching in Music - Elementary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 680 Special Studies in Music Education:
1-3 cr. Undergraduate/Graduate.
Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics.
Prerequisites: admis to U/G MusEd prog or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 680G Special Studies in Music Education:
1-3 cr. Undergraduate/Graduate.
Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics.
Prerequisites: admis to U/G MusEd prog or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 710 Research in Music Education
3 cr. Graduate.
Qualitative and quantitative methods in music education research.
Prerequisites: grad st.
Last Taught: Fall 2019, Spring 2016, Fall 2013, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 777 Recent Developments in Music Education
3 cr. Graduate.
Studies in the history and philosophy of music education, aesthetics, and basic research design. Discussion of current curricular practices as compared with traditional music education.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 778 Foundations of Music Education
3 cr. Graduate.
Studies in the history and philosophy of music education, aesthetics, and basic research design. Discussion of current curricular practices as compared with traditional music education.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 780 General Music Methods and Materials
2 cr. Graduate.
New approaches to secondary general music--particularly jr high related arts/humanities, films, filmstrip packages, records and book resources. Development of teaching units.
Prerequisites: grad st.
Last Taught: Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 781 Seminar in Elementary Music
2-3 cr. Graduate.
Study of the principal approaches to teaching elementary classroom music. Work with appropriate resources.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
MUS ED 782 Music Education Seminar:
1-3 cr. Graduate.
Special offerings on subjects not covered by the basic seminars and other elective music education courses.
Prerequisites: grad st.
Last Taught: Spring 2019, Fall 2018, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 783 World Music Drumming: Level 1
3 cr. Graduate.
Perform and teach hand drumming ensembles from West Africa and the Caribbean.
Prerequisites: cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 784 World Music Drumming: Level 2
3 cr. Graduate.
Learn additional drum ensembles and songs from West Africa, Zimbabwe, the Caribbean, and Brazil. Play xylophone and flute pieces from these areas.
Prerequisites: Mus Ed 783 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 785 World Music Drumming: Level 3
3 cr. Graduate.
Perform and lead drum, xylophone, flute ensembles and songs from Ghana and the Caribbean.
Prerequisites: Mus Ed 784 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 799 Independent Study in Music Education
1-3 cr. Graduate.
Detailed independent work under a major professor in an area of Music Education not covered by available courses.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUS ED 990 Thesis or Final Project
1-6 cr. Graduate.
Formal written thesis, lecture/recital, major annotated bibliography, curriculum synthesis, or other type of music education project. Must submit proposal to advisor in Music Education and be approved by the Graduate Committee.
Prerequisites: grad st.
Course Rules: Retakeable to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

Music Performance (MUSPERF)

MUSPERF 1 Fundamentals of Piano:
1 cr. Undergraduate.
Small group instruction in piano fundamentals. Course has two progressive levels.
Prerequisites: Music major; audition principal instrument; successful completion of lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to max of 2 cr. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 101 Lessons in Piano:
1 cr. Undergraduate.
Private lessons in piano. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 102 Lessons in Organ:
1 cr. Undergraduate.
Private lessons in organ. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 103 Lessons in Harpsichord:
1 cr. Undergraduate.
Private lessons in harpsichord. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 111 Lessons in Voice:
1 cr. Undergraduate.
Private lessons in voice. Course has four progressive performance levels.
Prerequisites: Music major or non-music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 121 Lessons in Flute:
1 cr. Undergraduate.
Private lessons in flute. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 122 Lessons in Oboe:
1 cr. Undergraduate.
Private lessons in oboe. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2019, Fall 2015, Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 123 Lessons in Clarinet:
1 cr. Undergraduate.
Private lessons in clarinet. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 124 Lessons in Saxophone:
1 cr. Undergraduate.
Private lessons in saxophone. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 125 Lessons in Bassoon:
1 cr. Undergraduate.
Private lessons in bassoon. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 126 Lessons in Trumpet:
1 cr. Undergraduate.
Private lessons in trumpet. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 127 Lessons in Trombone:
1 cr. Undergraduate.
Private lessons in trombone. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 128 Lessons in French Horn:
1 cr. Undergraduate.
Private lessons in french horn. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 129 Lessons in Euphonium:
1 cr. Undergraduate.
Private lessons in euphonium. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 130 Lessons in Tuba:
1 cr. Undergraduate.
Private lessons in tuba. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Last Taught: Spring 2012, Spring 2011, Fall 2010, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 141 Lessons in Violin:
1 cr. Undergraduate.
Private lessons in violin. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 142 Lessons in Viola:
1 cr. Undergraduate.
Private lessons in viola. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 143 Lessons in Cello:
1 cr. Undergraduate.
Private lessons in cello. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2015, Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 144 Lessons in Double Bass:
1 cr. Undergraduate.
Private lessons in double bass. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 145 Lessons in Harp:
1 cr. Undergraduate.
Private lessons in harp. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 146 Lessons in Guitar--Classical:
1 cr. Undergraduate.
Private lessons in a non-principal guitar style. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 4 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 147 Lessons in Guitar-Finger-Style:
1 cr. Undergraduate.
Private lessons in a non-principal style. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 148 Lessons in Guitar--Jazz:
1 cr. Undergraduate.
Private lessons in a non-principal style. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 149 Lessons in Guitar--Flamenco:
1 cr. Undergraduate.
Private lessons in a non-principal style. Course has eight progressive performance levels.
Prerequisites: Music majors only; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 151 Lessons in Percussion:
1 cr. Undergraduate.
Private lessons in percussion. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Spring 2019, Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 201 Lessons in Piano:
1 cr. Undergraduate.
Private lessons in piano. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 202 Lessons in Organ:
1 cr. Undergraduate.
Private lessons in organ. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 203 Lessons in Harpsichord:
1 cr. Undergraduate.
Private lessons in harpsichord. Course has eight progressive performance levels.
Prerequisites: music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 211 Lessons in Voice:
1 cr. Undergraduate.
Private lessons in voice. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 221 Lessons in Flute:
1 cr. Undergraduate.
Private lessons in flute. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 222 Lessons in Oboe:
1 cr. Undergraduate.
Private lessons in oboe. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 223 Lessons in Clarinet:
1 cr. Undergraduate.
Private lessons in clarinet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 224 Lessons in Saxophone:
1 cr. Undergraduate.
Private lessons in saxophone. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 225 Lessons in Bassoon:
1 cr. Undergraduate.
Private lessons in bassoon. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 231 Lessons in French Horn:
1 cr. Undergraduate.
Private lessons in french horn. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 232 Lessons in Trumpet:
1 cr. Undergraduate.
Private lessons in trumpet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 233 Lessons in Trombone:
1 cr. Undergraduate.
Private lessons in trombone. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 234 Lessons in Euphonium:
1 cr. Undergraduate.
Private lessons in euphonium. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 235 Lessons in Tuba:
1 cr. Undergraduate.
Private lessons in tuba. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 241 Lessons in Violin:
1 cr. Undergraduate.
Private lessons in violin. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 242 Lessons in Viola:
1 cr. Undergraduate.
Private lessons in viola. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 243 Lessons in Cello:
1 cr. Undergraduate.
Private lessons in cello. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 244 Lessons in Double Bass:
1 cr. Undergraduate.
Private lessons in double bass. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2019, Spring 2019, Fall 2017, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 245 Lessons in Harp:
1 cr. Undergraduate.
Private lessons in harp. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 246 Lessons in Guitar--Classical:
1 cr. Undergraduate.
Private lessons in a guitar style. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 247 Lessons in Guitar-Finger-Style:
1 cr. Undergraduate.
Private lessons in a guitar style. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 248 Lessons in Guitar--Jazz:
1 cr. Undergraduate.
Private lessons in a guitar style. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 249 Lessons in Guitar--Flamenco:
1 cr. Undergraduate.
Private lessons in guitar. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2013, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 251 Lessons in Percussion:
1 cr. Undergraduate.
Private lessons in percussion. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 252 Lessons in Drum Set
1-2 cr. Undergraduate.
Private lessons in drum set. The course has eight progressive performance levels.
Prerequisites: music major or minor.
Course Rules: Re-takeable up to a max of 8 credits.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 255 Lessons in Jazz Piano:
2 cr. Undergraduate.
Lessons in Jazz Piano. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2014, Fall 2013, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 261 Lessons in Composition:
1 cr. Undergraduate.
Private lessons in composition. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 263 Lessons in Studio:
1 cr. Undergraduate.
Private lessons in studio. Course has two progressive levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 269 Lessons in Jazz Guitar:
1 cr. Undergraduate.
Private lessons in Jazz Guitar. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2014, Fall 2013, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 301 Lessons in Piano:
2 cr. Undergraduate.
Private lessons in piano. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 302 Lessons in Organ:
2 cr. Undergraduate.
Private lessons in organ. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 304 Lessons in Collaborative Piano-Vocal:
2 cr. Undergraduate.
Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 306 Jazz Piano:
2 cr. Undergraduate.
Lessons in Jazz Piano. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2014, Fall 2013, Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 311 Lessons in Voice: 2 cr. Undergraduate.
Private lessons in voice. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 315 Brass Pedagogy and Techniques 3 cr. Undergraduate.
Prepares students to teach brass instruments in K-12 school settings. Classroom instruction in horn, trumpet, trombone, euphonium, tuba and related brass instruments.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 31, 32, 33, 34, & 35.
Last Taught: Fall 2019, Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 316 String Pedagogy and Techniques 3 cr. Undergraduate.
Prepares students for classroom instruction in teaching violin, viola, cello and string bass with appropriate pedagogical and repertoire choices for all K-12 school.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 41, 42, 43, 44, and Mus Ed 452.
Last Taught: Fall 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 317 Woodwind Pedagogy and Techniques 3 cr. Undergraduate.
Prepares students for classroom instruction in flute, oboe, clarinet, bassoon and saxophone with appropriate pedagogical and repertoire choices for all K-12 school.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 21, 22, 23, 24.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 318 Percussion Pedagogy and Techniques 2 cr. Undergraduate.
Instruments and methods for teaching various percussion instruments and methods including snare drum, timpani, keyboard percussion instruments, accessory percussion instruments, and hand drums.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 51.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 319 Voice Technique for the Instrumentalist 1 cr. Undergraduate.
Small group instruction in fundamentals of voice for music educators, including vocal pedagogy and techniques.
Prerequisites: music major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 321 Lessons in Flute: 2 cr. Undergraduate.
Private lessons in flute. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 322 Lessons in Oboe: 2 cr. Undergraduate.
Private lessons in oboe. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 323 Lessons in Clarinet: 2 cr. Undergraduate.
Private lessons in clarinet. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 324 Lessons in Saxophone: 2 cr. Undergraduate.
Private lessons in saxophone. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 325 Lessons in Bassoon: 2 cr. Undergraduate.
Private lessons in bassoon. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 328 Jazz Saxophone:
2 cr. Undergraduate.
Lessons in Jazz Saxophone. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 331 Lessons in French Horn:
2 cr. Undergraduate.
Private lessons in french horn. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 332 Lessons in Trumpet:
2 cr. Undergraduate.
Private lessons in trumpet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 333 Lessons in Trombone:
2 cr. Undergraduate.
Private lessons in trombone. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2017, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 334 Lessons in Euphonium:
2 cr. Undergraduate.
Private lessons in euphonium. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 335 Lessons in Tuba:
2 cr. Undergraduate.
Private lessons in tuba. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 337 Jazz Trombone:
2 cr. Undergraduate.
Lessons in Jazz Trombone. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 341 Lessons in Violin:
2 cr. Undergraduate.
Private lessons in violin. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 342 Lessons in Viola:
2 cr. Undergraduate.
Private lessons in viola. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 343 Lessons in Cello:
2 cr. Undergraduate.
Private lessons in cello. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 344 Lessons in Double Bass:
2 cr. Undergraduate.
Private lessons in double bass. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 345 Lessons in Harp:
2 cr. Undergraduate.
Private lessons in harp. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2016, Fall 2015, Fall 2009, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 346 Lessons in Guitar--Classical:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 347 Lessons in Guitar--Finger-Style:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 348 Lessons in Guitar--Jazz:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 349 Lessons in Guitar--Flamenco:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 351 Lessons in Percussion:
2 cr. Undergraduate.
Private lessons in percussion. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 352 Jazz Drum Set:
2 cr. Undergraduate.
Lessons in Jazz Drum Set. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 353 Jazz String Bass:
2 cr. Undergraduate.
Lessons in Jazz String Bass. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 361 Lessons in Composition:
1 cr. Undergraduate.
Private lessons in composition. Course has four progressive performance levels. Level I will be presented as a group lesson.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 401 Lessons in Piano:
2 cr. Undergraduate.
Private lessons in piano. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 402 Lessons in Organ:
2 cr. Undergraduate.
Private lessons in organ. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 404 Lessons in Collaborative Piano-Vocal
2 cr. Undergraduate.
Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2014, Spring 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 406 Jazz Piano:
2 cr. Undergraduate.
Lessons in Jazz Piano. Two progressive levels.
Prerequisites: MusPerf 306(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 411 Lessons in Voice:
2 cr. Undergraduate.
Private lessons in voice. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 421 Lessons in Flute:
2 cr. Undergraduate.
Private lessons in flute. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 422 Lessons in Oboe:
2 cr. Undergraduate.
Private lessons in oboe. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 423 Lessons in Clarinet:
2 cr. Undergraduate.
Private lessons in clarinet. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 424 Lessons in Saxophone:
2 cr. Undergraduate.
Private lessons in saxophone. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 425 Lessons in Bassoon:
2 cr. Undergraduate.
Private lessons in bassoon. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 428 Jazz Saxophone:
2 cr. Undergraduate.
Lessons in Jazz Saxophone. Two progressive levels.
Prerequisites: MusicPerf 328(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 431 Lessons in French Horn:
2 cr. Undergraduate.
Private lessons in french horn. Course has four progressive performance
levels.
Prerequisites: Music major or non-major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 432 Lessons in Trumpet:
2 cr. Undergraduate.
Private lessons in trumpet-cornet. Course has four progressive performance
levels. May be retaken w/ chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Prerequisite: jr st; Performance Major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 433 Lessons in Trombone:
2 cr. Undergraduate.
Private lessons in trombone. Course has four progressive performance
levels.
Prerequisites: jr st; Performance Major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 434 Lessons in Euphonium:
2 cr. Undergraduate.
Private lessons in euphonium. Course has four progressive performance
levels.
Prerequisites: jr st; Performance Major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 435 Lessons in Tuba:
2 cr. Undergraduate.
Private lessons in tuba. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Last Taught: Spring 2020, Fall 2019, Spring 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 436 Jazz Trumpet:
2 cr. Undergraduate.
Lessons in Jazz Trumpet. Two progressive levels.
Prerequisites: MusPerf 336(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 437 Jazz Trombone:
2 cr. Undergraduate.
Lessons in Jazz Trombone. Two progressive levels.
Prerequisites: MusPerf 337(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 441 Lessons in Violin:
2 cr. Undergraduate.
Private lessons in violin. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument;
successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in
approved performance organization. Repeat of level only by prior cons
instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 442 Lessons in Viola:
2 cr. Undergraduate.
Private lessons in viola. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 443 Lessons in Cello:
2 cr. Undergraduate.
Private lessons in cello. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 444 Lessons in Double Bass:
2 cr. Undergraduate.
Private lessons in double bass. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 445 Lessons in Harp:
2 cr. Undergraduate.
Private lessons in harp. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 446 Lessons in Guitar--Classical:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 447 Lessons in Guitar--Finger-Style:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 448 Lessons in Guitar--Jazz:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 449 Lessons in Guitar--Flamenco:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 450 Lessons in Percussion:
2 cr. Undergraduate.
Private lessons in percussion. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 452 Jazz Drum Set:
2 cr. Undergraduate.
Lessons in Jazz Drum Set. Two progressive levels.
Prerequisites: MusPerf 352(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 453 Jazz String Bass:
2 cr. Undergraduate.
Lessons in Jazz String Bass. Two progressive levels.
Prerequisites: MusPerf 353(P).
Course Rules: May be retaken w/chg topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2017, Spring 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 461 Lessons in Composition:
2 cr. Undergraduate.
Private lesson in composition. Course has four progressive levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 501 Master Class in Keyboard Instruments, Piano
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated for a max of 8 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 501G Master Class in Keyboard Instruments, Piano
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated for a max of 8 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 502 Master Class in Keyboard Instruments, Organ
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 502G Master Class in Keyboard Instruments, Organ
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 511 Master Class in Voice
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 511G Master Class in Voice
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 521 Master Class in Woodwind Instruments, Flute
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 521G Master Class in Woodwind Instruments, Flute
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 522 Master Class in Woodwind Instruments, Oboe
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 522G Master Class in Woodwind Instruments, Oboe
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 523 Master Class in Woodwind Instruments, Clarinet
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 523G Master Class in Woodwind Instruments, Clarinet
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 524 Master Class in Woodwind Instruments, Saxophone
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 524G Master Class in Woodwind Instruments, Saxophone
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 525 Master Class in Woodwind Instruments, Bassoon
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 525G Master Class in Woodwind Instruments, Bassoon
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 531 Master Class in Brass Instruments, French Horn
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 531G Master Class in Brass Instruments, French Horn
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 532 Master Class in Brass Instruments, Trumpet
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 532G Master Class in Brass Instruments, Trumpet
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 533 Master Class in Brass Instruments, Trombone
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 533G Master Class in Brass Instruments, Trombone
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 534 Master Class in Brass Instruments, Euphonium
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 534G Master Class in Brass Instruments, Euphonium
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 535 Master Class in Brass Instruments, Tuba
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 535G Master Class in Brass Instruments, Tuba
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 541 Master Class in String Instruments, Violin
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 541G Master Class in String Instruments, Violin
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 542 Master Class in String Instruments, Viola
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 542G Master Class in String Instruments, Viola
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 543 Master Class in String Instruments, Violoncello
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 543G Master Class in String Instruments, Violoncello
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 544 Master Class in String Instruments, Bass Viol
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 544G Master Class in String Instruments, Bass Viol
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 545 Master Class in String Instruments, Harp
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr. Not available for grad cr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 545G Master Class in String Instruments, Harp
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr. Not available for grad cr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 546 Master Class in Guitar
1 cr. Undergraduate/Graduate.
Master Class in Guitar supplements the student’s private lesson by providing an opportunity for students to perform and critique repertoire and discuss related topics.
Prerequisites: jr st, cons instr.
Course Rules: Counts as repeat of Music 280 with similar topic. May be retaken to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 546G Master Class in Guitar
1 cr. Undergraduate/Graduate.
Master Class in Guitar supplements the student’s private lesson by providing an opportunity for students to perform and critique repertoire and discuss related topics.
Prerequisites: jr st, cons instr.
Course Rules: Counts as repeat of Music 280 with similar topic. May be retaken to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 551 Master Class in Percussion
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 551G Master Class in Percussion
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 701 Keyboard Instruments, Piano
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 702 Keyboard Instruments, Organ
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 703 Collaborative Piano - Vocal
2 cr. Graduate.
Study and performance of the art song repertoire; development of sight reading, transposition, and vocal coaching skills.
Prerequisites: grad st; cons instr; audition.
Course Rules: Counts as repeat of Music 280 with similar topic. May be retaken to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 704 Collaborative Piano - Instrumental
2 cr. Graduate.
Study and performance of the art song repertoire; development of sight reading, transposition, and vocal coaching skills.
Prerequisites: grad st; cons instr; audition.
Course Rules: Counts as repeat of Music 280 with similar topic. May be retaken to max of 8 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 705 Techniques of Opera Coaching and Accompanying
1 cr. Graduate.
Introduction to opera coaching and accompanying skills. Students will observe and accompany opera workshop rehearsals and public performances.
Prerequisites: grad st; cons instr; audition.
Course Rules: Counts as repeat of Music 280 with similar topic. May be retaken to max of 4 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 706 Sonatas, Piano and String
1 cr. Graduate.
Study and performance of the standard piano and string sonata repertoire from all periods.
Prerequisites: grad st; cons instr; audition.
Course Rules: May be repeated to max of 4 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 711 Voice
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 712 Woodwind Instruments, Flute
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 713 Woodwind Instruments, Oboe
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 714 Woodwind Instruments, Clarinet
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 715 Woodwind Instruments, Saxophone
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 716 Woodwind Instruments, Bassoon
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 721 Brass Instruments, French Horn
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 722 Brass Instruments, Trumpet
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 723 Brass Instruments, Trombone
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 724 Brass Instruments, Euphonium
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 725 Brass Instruments, Tuba
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 731 String Instruments, Violin
2-3 cr. Graduate.
Principal performance study for graduate students concentrating in violin performance (3 cr), or principal instrumental study for graduate students concentrating in string pedagogy (2 cr).
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr (performance students), or 8 cr (string pedagogy students). Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 742 String Instruments, Viola
2-3 cr. Graduate.
Principal performance study for graduate students concentrating in viola performance (3 cr), or principal instrumental study for graduate students concentrating in string pedagogy (2 cr).
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr (performance students), or 8 cr (string pedagogy students). Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 743 String Instruments, Violoncello
2-3 cr. Graduate.
Principal performance study for graduate students concentrating in violoncello performance (3 cr), or principal instrumental study for graduate students concentrating in string pedagogy (2 cr).
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr (performance students), or 8 cr (string pedagogy students). Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 744 String Instruments, Bass Viol
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 745 String Instruments, Harp
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 746 Guitar
3 cr. Graduate.
Principal performance study for graduate students concentrating in guitar performance.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to 12 cr max. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 751 Percussion
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2019, Spring 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 761 Advanced Composition
2 cr. Graduate.
Advanced independent performance study in musical composition.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to total of 8 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 801 Keyboard Instruments, Piano
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Fall 2018, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 821 Woodwind Instruments, Flute
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2019, Fall 2018, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 822 Woodwind Instruments, Oboe
2 cr. Graduate.
Principal performance study for solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 823 Woodwind Instruments, Clarinet
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 825 Woodwind Instruments, Bassoon
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 841 String Instruments, Violin
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 842 String Instruments, Viola
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 843 String Instruments, Violoncello
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 855 Instrumental Master Class
1 cr. Graduate.
Discussion of individual instrumental techniques in chamber music playing. Literature studied depending on group experience and interest.
Prerequisites: grad st; admis to ICM; writ cons director of ICM.
Course Rules: May be repeated to max of 4 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 901 Keyboard Instruments, Piano
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 902 Keyboard Instruments, Organ
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 903 Keyboard Instruments, Harpsichord
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 603. May be repeated to max of 6 cr. Music majors only.
Last Taught: Spring 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 911 Voice
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 921 Woodwind Instruments, Flute
1 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 621. May be repeated to max of 6 cr. Music majors only.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 922 Woodwind Instruments, Oboe
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 621. May be repeated to max of 6 cr. Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 923 Woodwind Instruments, Clarinet
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 623. May be repeated to max of 6 cr. Open to music majors only.
Last Taught: Spring 2013, Fall 2012, Spring 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 924 Woodwind Instruments, Saxophone
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 624. May be repeated to max of 6 cr. Open to music majors only.
Last Taught: Spring 2011, Fall 2010, Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 925 Woodwind Instruments, Bassoon
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 625. May be repeated to max of 6 cr. Open to music majors only.
Last Taught: Spring 2020, Fall 2019, Fall 2007, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 931 Brass Instruments, French Horn
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 631. May be repeated to max of 6 cr. Open to music majors only.
Last Taught: Spring 2015, Fall 2013, Spring 2013, Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 932 Brass Instruments, Trumpet
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 933 Brass Instruments, Trombone
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as a repeat of MusPerf 633. May be repeated to max of 6 cr. Open to music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 934 Brass Instruments, Euphonium
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 6 cr.
Last Taught: Fall 2007, Fall 2006, Spring 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 935 Brass Instruments, Tuba
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 635. May be repeated to max of 6 cr. Open to music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 941 String Instruments, Violin
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 641. May be repeated to max of 6 cr. Open to Music majors only.
Last Taught: Spring 2020, Spring 2019, Fall 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 942 String Instruments, Viola
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 642. May be repeated to max of 6 cr. Open to Music majors only.
Last Taught: Spring 2020, Fall 2017, Spring 2016, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 943 String Instruments, Violoncello
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 643. May be repeated to max of 6 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 944 String Instruments, Bass Viol
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 644. May be repeated to max of 6 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 945 String Instruments, Harp
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 645. May be repeated to max of 6 cr. Open to Music majors only.
Current Offerings: https://catalog.uwm.edu/course-search/

MUSPERF 946 Guitar
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr
Course Rules: May be repeated to a 6 cr max. Open to Music majors only.
Last Taught: Fall 2019, Spring 2019, Fall 2018, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
MUSPERF 951 Percussion
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 651. May be repeated to max of 6 cr. Open to Music majors only.
Last Taught: Fall 2015, Spring 2010, Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

Nonprofit Administration (NONPROF)

NONPROF 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations.
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 705 Professionals and Volunteers in Nonprofit Organizations
3 cr. Graduate.
Seminar in techniques of management of professionals and volunteers in nonprofit organizations.
Prerequisites: grad st.
Course Rules: Nonprofit 705 & Pol Sci 705 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 725 Governance of Nonprofit Organizations
3 cr. Graduate.
Roles and responsibilities of governing boards and executive leaders. Critical review of alternative governance and executive leadership models. Counts as repeat of BusMgmt 725 and Pub Adm 958 w/same title.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 740 Executive Leadership of Nonprofit Organizations
3 cr. Graduate.
Nonprofit administration course designed to prepare students for a career in leadership and executive rules in nonprofit organizations. Counts as a repeat of Pub Adm 958 w/same topic.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 750 Social Entrepreneurship in the Nonprofit Sector
3 cr. Graduate.
In-depth exploration and examination of the concept of social entrepreneurship and how it is being understood, applied and practiced in the nonprofit sector.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 765 International Nongovernmental Organizations
3 cr. Graduate.
International nongovernmental organizations (INGOs) and the roles they play in relief and development work in developing countries.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Pol Sci 958 & Pub Adm 958 w/same topic.
Last Taught: Fall 2016, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 770 Leveraging Technology in the Public and Nonprofit Sectors
3 cr. Graduate.
Application of information technology (IT) concepts and tools to challenges and opportunities in the public and nonprofit sectors. Counts as a repeat of Pub Adm 958 w/same topic.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 785 Managing Change in Public and Nonprofit Organizations
3 cr. Graduate.
Methods and techniques in the research and practice of organization development.
Prerequisites: grad st.
Course Rules: Counts as repeat of Pol Sci 958 & Pub Adm 958 w/same topic.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 789 Theory and Role of Nonprofit Organizations
3 cr. Graduate.
Graduate-level introduction to nonprofit administration, including an examination of the role of the nonprofit sector in contemporary society.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 791 Nonprofit Advocacy and Public Policy
3 cr. Graduate.
Prerequisites: grad st
Course Rules: Nonprofit 791 & Pol Sci 791 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 792 Decision-Making for Nonprofit and Public Organizations
3 cr. Graduate.
Research methods including research design, measurement, and analysis. Qualitative and quantitative decision-making methods. Understanding and using basic statistical concepts and techniques in decision making.
Prerequisites: grad st
Course Rules: Nonprof 792 & Pub Adm 792(Pol Sci 792) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
NONPROF 793 Law of Nonprofit Organizations
3 cr. Graduate.
Legal concepts and issues relevant to the formations and operations
of nonprofit organizations. Complying with applicable federal and state
states and regulations.
Prerequisites: grad st
Course Rules: Nonprof 793 & Pol Sci 793 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 795 Introduction to Nonprofit Revenue Streams and Portfolios
3 cr. Graduate.
Trends and issues surrounding nonprofit finance in an attempt to sketch
a portrait of nonprofit finance theory.
Prerequisites: grad st.
Course Rules: Counts as repeat of Pol Sci 958 & Pub Adm 958 w/
Financing Nonprofits topic.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load
requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit
load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 921 Nonprofit Administrative Internship
1-3 cr. Graduate.
Combines supervised field placement in a nonprofit organization
with class sessions and assignments designed to augment the work
experience.
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 958 Seminar in Nonprofit Administration:
3 cr. Graduate.
Selected topics covering different aspects of nonprofit administration.
Counts as repeat of Pub Adm 958 w/same topic. Retakable w/change in
topic to 9 cr max.
Prerequisites: grad st.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NONPROF 999 Independent Study
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after
consultation with a faculty member.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

Nursing (NURS)

NURS 101 Cultural Diversity in Health Care
3 cr. Undergraduate.
Enables student to conceptualize cultural diversity as a basic component
of American society with implications for sensitivity and respect in health
promotion and human relations.
Prerequisites: none.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 102 Perspectives on Health Care Systems
2 cr. Undergraduate.
Overview of the fundamental concepts and processes that shape
healthcare systems and their impact on access, cost, quality and health
outcomes.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 103 Freshman Seminar in Professional Nursing
1 cr. Undergraduate.
Designed to orient students to nursing through self-assessment, career
exploration, problem solving, study skills, and goal setting.
Prerequisites: admis to Pre-Nursing prog.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 110 Introduction to Global Health
3 cr. Undergraduate.
An overview of the broad field of global health, using the U.N. Sustainable
Development Goals as a guiding framework.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 172 Health and Health Care Practices
2 cr. Undergraduate.
Focuses on health, health care practices, personnel, and services related
to obtaining reliable information on health care needs and practices, and
available community services.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 190 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and
learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 203 Human Growth and Development Across the Life Span
4 cr. Undergraduate.
Introduction to physical, cognitive, and psychosocial growth of human organism from conception through older adulthood with application to health care.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 204 Global Maternal and Child Health: From Evidence to Action
3 cr. Undergraduate.
Critical issues impacting the health of mothers, newborns and children, using a global perspective and a life course analytical approach.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 205 Clinical Pharmacology
3 cr. Undergraduate.
The principles of pharmacology and administration; legislative controls; mechanisms of drug actions; contraindications; adverse and toxic effects and lifespan considerations.
Prerequisites: Nurs 320(C) or cons instr.
General Education Requirements: OWCB
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 211 Health Assessment
3 cr. Undergraduate.
Concepts and skills to comprehensively assess the health status of individuals. History taking, physical examination techniques, developmental, and other assessments.
Prerequisites: Admis to major or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 251 Genetics and Genomics in Healthcare
2 cr. Undergraduate.
The relationship between the underlying science (genetics), the study of genomes (genomics) and the social, ethical and legal issues (genethics) in healthcare.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 262 Exploring Human Sexuality
3 cr. Undergraduate.
Historical and contemporary issues involving human sexuality as seen through the lenses of nursing, psychology, biology, and sociology.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 290 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in especially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 299 Ad Hoc:
1-12 cr. Undergraduate.
Created expressly for offering in a specified enrollment period. Specific credits and additional prereqs, if any, will be specified in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken with change in topic.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 300 Introduction to Research Principles and Methods
2 cr. Undergraduate.
Introduction to the significance, principles, purpose, and methods of the research process in order to create good consumers of research literature.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 315 Nursing Science I: Concepts of Promoting and Maintaining Health
2 cr. Undergraduate.
Nursing science related to health promotion, disease prevention, and maintaining health; responses of individual and families in acute and community settings.
Prerequisites: admis to Nurs major.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 316 Palliative Care
3 cr. Undergraduate.
A review of palliative care and life limiting illness.
Prerequisites: Admission to the RN-BS-Nursing Program or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 320 Concepts of Illness I
3 cr. Undergraduate.
Mechanisms, manifestations, diagnosis, and treatment of disease states for selected body systems.
Prerequisites: Bio Sci 101(P) & 203(P), Chem 103(P); or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 321 Concepts of Illness II
3 cr. Undergraduate.
Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems. Continuation of Nurs 320.
Prerequisites: Nurs 320(P) or cons instr.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 326 Nursing Science II: Concepts of Aging and Long Term Health Care
3 cr. Undergraduate.
Identification and management of factors influencing and compromising health and functional ability of older adults and exploration of long-term health care in various settings.
Prerequisites: admission to the RN-BS-Nursing Program or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 327 Nursing Science III: Health Concepts-Women & Children
4 cr. Undergraduate.
Nursing science related to the acute, chronic, and health promotion care of women and children and their families in acute and community care settings.
Prerequisites: Nurs 211(C), 320(P), 321(C); 331(P)
Last Taught: Fall 2015, Summer 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 328 Nursing Science IV: Concepts of Health Care of the Adult
4 cr. Undergraduate.
Nursing science related to adults with acute and chronic health problems in both acute and community care settings. Individual and family responses.
Prerequisites: Nurs 321(C); 331(P).
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 331 Foundations of Clinical Practice I
5 cr. Undergraduate.
Introductory course includes communication, philosophy, theory, and decision making content, and psychomotor skills to be used as a base for planning and providing nursing care.
Prerequisites: admission to Nurs major.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 334 Foundations of Clinical Practice II
3 cr. Undergraduate.
Refine clinical decision making skills within the nursing process, professional communication, and psychomotor skills necessary for helping clients needing nursing care.
Prerequisites: Nurs 205(C), 321(C); 331(P).
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 351 Professional Role 1: Foundations of Professional Practice
3 cr. Undergraduate.
Exploration of selected foundational concepts and principles essential to the professional nursing role.
Prerequisites: admission to Nurs major.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 352 Health and Illness Concepts 1: Introduction
3 cr. Undergraduate.
Introduction of selected foundational health and illness concepts essential to nursing practice.
Prerequisites: admission to Nurs major.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 353 Clinical Practicum 1: Foundations
3 cr. Undergraduate.
Clinical practicum which introduces the application of foundational knowledge, skills, and attitudes in the provision of nursing care.
Prerequisites: admission to Nurs major.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 356 Current Topics of Nursing:
1-3 cr. Undergraduate.
Current thought, issues, and research in nursing and implications for practice.
Prerequisites: Jr st or cons instr.
Course Rules: May be retaken with topic change to a combined max of 12 cr for Nurs 365.
Last Taught: Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 365X Current Topics of Nursing:
1-3 cr. Undergraduate.
Current thought, issues, and research in nursing and implications for practice.
Prerequisites: Jr st or cons instr.
Course Rules: May be retaken with topic change to a combined max of 12 cr for Nurs 365.
Last Taught: Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 366 Clinical Pharmacology
3 cr. Undergraduate.
Pharmacological concepts, including legal ethical implications, pharmacokinetics, dynamics, -therapeutics, and pharmacogenomics. Major categories of pharmacological agents and associated alternative/ complementary and nutritional therapies are examined.
Prerequisites: admission to the RN-BS-Nursing Program or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 369X Clinical Pharmacology
3 cr. Undergraduate.
Pharmacological concepts, including legal ethical implications, pharmacokinetics, dynamics, -therapeutics, and pharmacogenomics. Major categories of pharmacological agents and associated alternative/ complementary and nutritional therapies are examined.
Prerequisites: admission to the RN-BS-Nursing Program or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 373 Alternative and Complementary Therapies in Holistic Health Care - Theory
2 cr. Undergraduate.
Investigative theories underlying alternative and complementary therapies (CAT) commonly used in holistic Health Care.
Prerequisites: none.
Course Rules: Can be taken simultaneously with Nurs 374.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 374 Alternative and Complementary Therapies in Holistic Health Care - Field Work
1 cr. Undergraduate.
Experiential course with select alternative and complementary therapies (CAT) commonly used in holistic health care.
Prerequisites: none.
Course Rules: Can be taken simultaneously with Nurs 373.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 375 Genetics and Genomics for Health Professionals
3 cr. Undergraduate.
Emphasizes relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.
Prerequisites: Admis to RN to BSN prog.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 380 Honors Seminar
3 cr. Undergraduate.
Selected topics in nursing and healthcare. May be retaken w/chg in topic to 9 cr max.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 390 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Last Taught: Spring 2018, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 398 Health Assessment and Promotion in Nursing Practice
3 cr. Undergraduate.
Application of nursing concepts and skills to promote health and comprehensively assess the health status of individuals using a nursing framework.
Prerequisites: admis to nurs major.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 399 Concepts of Pathophysiology and Pharmacotherapeutics 1
4 cr. Undergraduate.
Pathophysiology and pharmacology concepts for nursing across the lifespan.
Prerequisites: admis to nurs major.
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 400 Concepts of Pathophysiology and Pharmacotherapeutics: 2
4 cr. Undergraduate.
Pathophysiology and pharmacology concepts for nursing across the lifespan.
Prerequisites: Nurs 399(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 401 Global Patterns of Disease
3 cr. Undergraduate.
Global patterns of disease and epidemiological trends highlighting communicable, non-communicable diseases, injuries and outbreaks impacting the health of diverse populations.
Prerequisites: jr st; Nurs 110(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 403 Practice, Research and Leadership Role Development
3 cr. Undergraduate.
Explore and evaluate role of the professional nurse as practitioner, researcher, manager and leader.
Prerequisites: Nurs 334(P), 442(C).
General Education Requirements: OWCB
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 407X Foundations of Professional Nursing Practice
3 cr. Undergraduate.
Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course.
Prerequisites: admis to BSN @ Home Prog or cons instr.
Course Rules: Counts as repeat of UWS NSG 341.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 415 Nursing Science V: Concepts of Community Health Care of Aggregates
3 cr. Undergraduate.
Nursing care of individuals, families and communities; aggregates and special populations in the community; roles of community health nurses.
Prerequisites: Nurs 334(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 419 Concepts of Evidence-based Nursing Practice
3 cr. Undergraduate.
Introduction to an integration of concepts relevant to evidence-based nursing practice.
Prerequisites: Nurs 420(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 420 Professional Role 2: Provider of Care
3 cr. Undergraduate.
Examination of selected concepts and principles essential to the provision of patient care.
Prerequisites: Nurs 351(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 421 Health and Illness Concepts 2: Acute and Chronic Conditions
3 cr. Undergraduate.
Nursing care of individuals and families experiencing acute and chronic health conditions using a holistic approach.
Prerequisites: Nurs 352(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 422 Clinical Practicum 2: Acute & Chronic Conditions
3 cr. Undergraduate.
Clinical practicum focusing on providing nursing care for individuals and families with acute and chronic conditions.
Prerequisites: Nurs 353(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 430 Professional Role 3: Interprofessional Practice
3 cr. Undergraduate.
Analysis of factors contributing to collaboration within and among teams.
Prerequisites: Nurs 420(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 431 Health and Illness Concepts IV: Lifespan
3 cr. Undergraduate.
Integration of selected concepts in the care of individuals and families across the lifespan.
Prerequisites: Nurs 421(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 432 Health and Illness Concepts III: Population Health
3 cr. Undergraduate.
Promotion and improvement of the health of populations and communities.
Prerequisites: Nurs 431(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 433 Clinical Practicum 3: Population Health
3 cr. Undergraduate.
Clinical practicum focusing on applying concepts and providing population based nursing care to aggregates.
Prerequisites: Nurs 422(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 434 Nursing Informatics and Technology
3 cr. Undergraduate.
Basic concepts of informatics are introduced with focus on application to clinical practice to improve safety and quality of care.
Prerequisites: Nurs 419(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 440 Nursing Specialty:
2 cr. Undergraduate.
Topics of current interest in nursing specialty areas.
Prerequisites: Nurs 442(P).
Course Rules: May be retaken w/chg in topic to 8 cr. max with cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 442 Nursing Practice I
8 cr. Undergraduate.
Clinical practice course for providing nursing care for adults and children experiencing acute and/or chronic health problems.
Prerequisites: Nurs 334(P) & 403(C); or cons instr.
Last Taught: Summer 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 443 Nursing Practice II
8 cr. Undergraduate.
Clinical practice course for providing nursing care to individuals, families, groups, and communities.
Prerequisites: Nurs 442(P) or cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 445 Capstone Practicum for Registered Nurses
3 cr. Undergraduate.
Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.
Prerequisites: Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P), English 102 (P).
Course Rules: Counts as repeat of Nurs 445X.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 445X Capstone Practicum for Registered Nurses
3 cr. Undergraduate.
Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.
Prerequisites: Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P), English 102 (P).
Course Rules: Counts as repeat of Nurs 445X.
General Education Requirements: OWCB
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 448 Mental Health Across the Care Continuum
3 cr. Undergraduate.
This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 460 Legal Aspects of Nursing
2 cr. Undergraduate.
Current legal aspects and issues in nursing, including courts, licensure problems, legal status of nursing and health personnel, contracts, torts, negligence, crimes, and wills.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 475 Global Health: Ethics and Human Rights
3 cr. Undergraduate/Graduate.
Ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.
Prerequisites: jr st; Nurs 110(P) or cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 475G Global Health: Ethics and Human Rights  
3 cr. Undergraduate/Graduate.  
Ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.  
Prerequisites: Jr st, Nura 110(P) or cons instr.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 476 Professional Role 4: Leading in Complex Systems  
3 cr. Undergraduate.  
Synthesis of knowledge, skills, and attitudes for leading in complex healthcare environments.  
Prerequisites: Nurs 430(P).  
General Education Requirements: OWCB  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 477 Health and Illness Concepts 5: Complex  
3 cr. Undergraduate.  
Application of selected concepts to individuals/families with complex health and illness needs.  
Prerequisites: Nurs 432(P).  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 478 Clinical Practicum IV: Complex Care  
6 cr. Undergraduate.  
Nursing leadership and nursing care management of individuals, families, and groups experiencing complex health problems.  
Prerequisites: NURS 422(P), NURS 433(P), and NURS 353(P).  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 480 Transition to Professional Practice  
3 cr. Undergraduate.  
Exploration of the new graduate professional role to enable a smooth transition to the first registered nurse position. Course is delivered in hybrid format.  
Prerequisites: NURS 478(C) & 433(P).  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 490 Special Studies in Nursing  
1-5 cr. Undergraduate.  
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.  
Prerequisites: consent of instructor.  
Course Rules: May be retaken to max of 5 cr.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 490X Special Studies in Nursing  
1-5 cr. Undergraduate.  
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.  
Prerequisites: consent of instructor.  
Course Rules: May be retaken to max of 5 cr.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 497 Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken with change in topic; max of 9 cr for grad students.  
Last Taught: UWinterI 2020, Summer 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 497G Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken with change in topic; max of 9 cr for grad students.  
Last Taught: UWinterI 2020, Summer 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 620 Global Food Security and Systems  
3 cr. Undergraduate/Graduate.  
An in-depth investigation of global food systems and their impact on food security and development.  
Prerequisites: jr st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 620G Global Food Security and Systems  
3 cr. Undergraduate/Graduate.  
An in-depth investigation of global food systems and their impact on food security and development.  
Prerequisites: jr st.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 653G Foundations in Pathophysiology for Nursing Practice  
4 cr. Graduate.  
Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems as a foundation for nursing management of selected conditions.  
Prerequisites: Admission to Masters in Nursing program.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 654G Health Assessment and Promotion  
3 cr. Graduate.  
Application of concepts and skills to comprehensively assess the health status of individuals using functional health patterns as a framework.  
Prerequisites: Admission to Masters in Nurs Prog or cons instr  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

NURS 657G Pharmacotherapeutics for Nursing Practice  
3 cr. Graduate.  
Pharmacologic and pharmacotherapeutic concepts in the management of patients with complex conditions and illnesses across the continuum of care.  
Prerequisites: Admission to Masters in Nurs Prog or cons instr  
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 663G Transformation to Professional Practice
2 cr. Graduate.
Direct entry students investigate the transformation from being a student nurse to becoming a registered nurse and prepare to practice at the graduate level while progressing toward advanced clinical generalist and leadership roles.
Prerequisites: NURS 688(P) or NURS 688(C).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 670G Nursing Care of Adults and Older Adults I
3 cr. Graduate.
Nursing science related to health promotion, prevention, and illness management for adults and older adults within families, communities, and populations.
Prerequisites: Admis to Masters in Nurs Prog, NURS 653(C), NURS 657(C).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 671G Nursing Care of Adults and Older Adults II
3 cr. Graduate.
Nursing science related to health promotion, prevention, and illness management for adults and older adults within families, communities, and populations.
Prerequisites: Admis to Masters in Nurs Prog, NURS 654(P), NURS 670(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 672G Nursing Care of Women and Infants
2 cr. Graduate.
Nursing science related to care of women, infants, and families in institutional and community care.
Prerequisites: Admis to Masters in Nurs Prog.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 673G Nursing Care of Children and Families
2 cr. Graduate.
Nursing science related to care of children and families in acute, institutional, and community care settings.
Prerequisites: Admis to Masters in Nurs Prog.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 674G Mental Health Nursing Care Across the Lifespan
2 cr. Graduate.
Nursing science, principles, and processes for the promotion of mental health and the prevention and management of mental illness across the lifespan.
Prerequisites: Admis to Masters in Nurs Prog.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 680G Nursing and Society
4 cr. Graduate.
Introduction to the nursing profession, its multifaceted role in society, and the abilities needed for professional nursing practice.
Prerequisites: Admis to Masters in Nurs Prog.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 681G Professional Role in Health Care Systems
3 cr. Graduate.
Exploration and analysis of entry level professional nursing roles in health care systems.
Prerequisites: Admis to Masters in Nurs Prog, NURS 680(P).
Last Taught: Summer 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 683 Healthcare-Immigrants/Refugees
3 cr. Undergraduate/Graduate.
Enables students to analyze the healthcare needs of immigrant and refugee populations and to identify potential healthcare interventions that would enhance health promotion and health protection for these populations.
Prerequisites: junior standing or graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 684 Death and Dying Around the World
3 cr. Undergraduate/Graduate.
Enables students to analyze the sociocultural considerations in the dying process for different regions of the world and the healthcare needs of different populations at the end of life.
Prerequisites: junior standing or graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 685 Clinical Reasoning
5 cr. Graduate.
Development and refinement of, and practice with, the clinical reasoning skills required for professional nursing practice.
Prerequisites: NURS 653(P), NURS 680(P), and NURS 657(C).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 686G Professional Nursing Practicum I
3 cr. Graduate.
Intensive practicum experience providing nursing care to individuals, families, and groups within diverse populations across the health care continuum.
Prerequisites: Admis to Masters in Nurs Prog; NURS 685(P) and NURS 687(P).
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 687G Professional Nursing Practice Internship
1 cr. Graduate.
Intensive clinical practice experience in a selected area of nursing.
Prerequisites: Nurs 686
Last Taught: Fall 2010, Fall 2009, Fall 2008, Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 688G Professional Nursing Practicum II
4 cr. Graduate.
Intensive practicum experience providing nursing care to individuals, families and groups within diverse populations across the health care continuum.
Prerequisites: Admis to Masters in Nurs Prog, NURS 686(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 690 Global Health Governance: Key Players, Financing and Challenges
3 cr. Undergraduate/Graduate.
Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.
Prerequisites: junior standing or consent of instructor.
Course Rules: GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 690G Global Health Governance: Key Players, Financing and Challenges
3 cr. Undergraduate/Graduate.
Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.
Prerequisites: junior standing or consent of instructor.
Course Rules: GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 699G Transformation to Clinical Leadership
1 cr. Graduate.
Prepares students for beginning a career as an advanced generalist registered nurse, with option for Certified Nurse Leader certification, in complex and changing healthcare environments.
Prerequisites: NURS 734(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 702 Advanced Practice Nursing Adult-Gerontology Chronic Illness
3 cr. Graduate.
Advanced practice nurse role in the assessment, differential diagnosis, and treatment of the adult-gerontology population with chronic health problems.
Prerequisites: grad st.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 703 Advanced Practice Nursing Adult-Gerontology Acute Illness
3 cr. Graduate.
Advanced practice nurse role in the assessment, differential diagnosis, and treatment of the adult-gerontology population with acute health problems.
Prerequisites: grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 704 Advanced Practice Nursing Adult-Gerontology Critical Illness
3 cr. Graduate.
Advanced practice nurse role in the assessment, differential diagnosis, and treatment of the adult-gerontology population with critical health problems.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 705 Instructional Strategies for Patient Education
3 cr. Graduate.
Study of instructional strategies applicable in patient education; opportunity to select, develop and evaluate the effectiveness of particular strategies in individual and/or group situations.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 706 Clinical Outcomes Management and Information Systems
3 cr. Graduate.
synthesis of advanced generalist nursing knowledge, processes and practices that influence point of care health outcomes related to health promotion, risk reduction, and illness management.
Prerequisites: Admis grad prog in nursing or cons instr.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 707 Advanced Pharmacology: Application to Advanced Nursing Practice
3 cr. Graduate.
Advanced knowledge related to use of pharmacotherapeutics in management of common health problems, nursing prescriptive authority, and development and use of clinical practice guidelines.
Prerequisites: grad st; admis to Nursing degree program; Nurs 753(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 708 Global Maternal and Child Health: From Evidence to Action
3 cr. Graduate.
This course will focus on critical issues impacting the health of mothers, newborns, and children, using a global and a life course analytic approach.
Prerequisites: Grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 709 Leading and Managing in Systems of Care
3 cr. Graduate.
evaluation of emerging nursing leadership and management concepts, theories, and research within diverse healthcare systems.
Prerequisites: grad st; admis to grad prog in nursing or cons instr.
Last Taught: Summer 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 711 Economics of Health Care and Health Care Systems
3 cr. Graduate.
Use of economic theory, models and principles to analyze decision-making by individuals, providers, third-party payers and governments in health and health care.
Prerequisites: Counts as repeat of NURS 779 with similar topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 712 Health Promotion Perspectives
3 cr. Graduate.
Nursing and inter-professional health promotion concepts including planning, delivery and evaluation of health promotion strategies at the point of care in diverse settings.
Prerequisites: grad st; admis grad prog in nursing or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 717 Community Health Nursing
3 cr. Graduate.
Nursing science related to the care of populations with focus on disease prevention and health promotion. Roles of community health nurses are explored.
Prerequisites: Admis to Masters in Nurs Prog; Nurs 727 (C)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 720 Biostatistics and Applications for Nursing Practice
3 cr. Graduate.
Introduction to biostatistics with special emphasis on the identification, description, application, and interpretation of clinical data about nursing phenomena and nursing practice.
Prerequisites: grad st; undergrad statistics course w/ grade of B or better w/in last 5 yrs or cons inst
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 721 Pathophysiology and Pharmacology for the Advanced Generalist
3 cr. Graduate.
Integration of pathophysiologic and pharmacologic therapy interventions for selected health conditions
Prerequisites: Admis grad prog in nursing or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 723 Evidence-Based Care Management
3 cr. Graduate.
Analysis of evidence-based interventions and design of a program to address a priority issue in population health and health care delivery.
Prerequisites: grad st; Nurs 725(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 725 Evidence Based Practice in Healthcare
3 cr. Graduate.
Introduction to evidence based practice and research methods. Emphasis is on retrieval of information, critique and application in diverse health care practice settings.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 726 Advanced Perspectives on Cultural Diversity and Disparities in Health Care
3 cr. Graduate.
This course will critically examine relationships between cultural diversity, health disparities and health care delivery to vulnerable populations.
Prerequisites: Admission to Doctor of Nursing Practice Program.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 728 Epidemiological Principles for Population Health
3 cr. Graduate.
Study of the distribution and determinants of health and disease in populations, including related methods and application.
Prerequisites: Admission to Doctor of Nursing Practice Program.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 729 Organizational Systems
3 cr. Graduate.
Study of systems of healthcare delivery emphasizing emerging healthcare models, financing and regulation of healthcare and the creation and evaluation of effective healthcare strategies.
Prerequisites: grad st; admis grad degree program or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 731 Practicum and Seminar in Health Professional Education
3 cr. Graduate.
Observation, participation, and practice in teaching in a health professional educational program.
Prerequisites: grad st
Last Taught: Fall 2018, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 734 Master of Nursing Residency I
3 cr. Graduate.
Clinical practicum focused on providing evidence-based nursing care to a cohort of patients and families within a specific clinical setting.
Prerequisites: grad st; previously completed or concurrent enrollment in the following courses: NURS 707, NURS 723, NURS 753, and NURS 754.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 735 Theory for Advanced Practice
3 cr. Graduate.
Study of knowledge base of nursing science. Concepts, frameworks and theories for nursing practice, for advanced roles with individuals, aggregates and systems.
Prerequisites: grad st; admis to Nursing degree program or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 741 Psychiatric Mental Health Theory I
3 cr. Graduate.
This course provides a foundation in psychopathology for clinical assessment and patient management across the lifespan.
Prerequisites: NURS 781(C); NURS 707(P); NURS 753(P); NURS 754(P); and NURS 753(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 742 Psychiatric Mental Health Theory II
3 cr. Graduate.
Introduction to psychiatric history taking, assessment, diagnostic evaluation, treatment modalities, and determinants of mental health for patients and families across the life span.
Prerequisites: NURS 782(C); NURS 741(P) and NURS 781(P).
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 743 Psychiatric Mental Health Theory III
3 cr. Graduate.
Addresses issues and roles essential to the psychiatric mental health nurse practitioner. Promotes skill refinement in assessment, diagnostic formulation, and evidence-based treatment planning.
Prerequisites: NURS 783(C), NURS 742(P) and NURS 782(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 750 Outcomes and Quality Management
3 cr. Graduate.
Examination, development and utilization of frameworks and tools for implementation and evaluation of health care program outcomes and quality management for groups of patients.
Prerequisites: grad st; admis to Nursing degree program; Nurs 753(P); or
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 751 Teaching in Practice Disciplines
3 cr. Graduate.
Issues, theories, and strategies used for teaching in disciplines that require clinical learning for the development of needed critical thinking and performance abilities.
Prerequisites: grad st; cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 752 Curriculum Development in Nursing Education
3 cr. Graduate.
Principles and techniques of nursing curriculum design, development, implementation and evaluation.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 753 Pathophysiologic Basis of Advanced Nursing Practice
3 cr. Graduate.
Human physiologic responses to actual and potential health problems, methods of measurement, developmental and environmental influences, and implications for advance nursing practice.
Prerequisites: grad st; admis to Nursing degree program or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 754 Comprehensive Assessment of Health: Implications for Clinical Decision-Making
3 cr. Graduate.
Comprehensive assessment of health in individuals and aggregates, including measurement of health status, appraisal of needs, analysis of environmental contexts, and development of diagnostic strategies.
Prerequisites: grad st; admis to Nursing degree program; Nurs 753(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 757 Family Nurse Practitioner Practicum I
3 cr. Graduate.
First of a three-practicum sequence designed to provide practice experience caring for individuals, families, and populations in primary care settings.
Prerequisites: grad st; Nurs 707(P); Nurs 725(P); Nurs 727(P); Nurs 729(P); Nurs 735(P); Nurs 754(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 758 Family Nurse Practitioner Practicum II
3 cr. Graduate.
Second of a three-practicum sequence focused on family nurse practitioner practice based on understanding the centrality of the patient-provider relationship.
Prerequisites: Nurs 757(P); 767(P); & 725(C).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 759 Family Nurse Practitioner Practicum III
3 cr. Graduate.
This is the last of a three-sequence practicum. Emphasis is on health policy, ethical, and professional issues that influence clinical decision-making in primary care.
Prerequisites: grad st; Nurs 758(P); 768(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 760 Processes of Aging
3 cr. Graduate.
An overview of the processes of aging including biological, psychological, and sociological perspectives. Emphasis on theories of development, gerontological research findings, and health services applications.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 762 Family Theory and Intervention Strategies for Advanced Nursing Practice
3 cr. Graduate.
Cognitive, affective, and behavioral principles related to the functioning of the family and its members. Emphasis on therapeutic interventions used in advanced nursing practice.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 763 Issues in Women's Health and Development
3 cr. Graduate.
Current physical, mental health, and developmental issues affecting women. Examination of the role of gender in health care research and clinical practice.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 764 Changing Health Behaviors
3 cr. Graduate.
Enhancement of knowledge related to the process of behavioral change, models of change, factors that affect change behavior, and issues related to measuring change.
Prerequisites: grad st or cons instr.
Last Taught: Summer 2010, Fall 1991.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 767 Family Nurse Practitioner Theory I
3 cr. Graduate.
Introductory course designed to prepare family nurse practitioners to deliver health care to individuals, families, and populations
Prerequisites: grad st; Nurs 707(P); Nurs 725(P); Nurs 727(P); Nurs 729(P); Nurs 735(P); Nurs 754(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 768 Family Nurse Practitioner Theory II
3 cr. Graduate.
Second of a three-course sequence focused on the delivery of primary care services within a relationship-centered care framework.
Prerequisites: Nurs 757(P); 767(P); & 725(C).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 769 Family Nurse Practitioner Theory III
3 cr. Graduate.
Last of a three-sequence course focused on health policy and professional issues that affect the delivery of primary care by family nurse practitioners.
Prerequisites: Nurs 758(P); 768(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 770 Nursing Administration
3 cr. Graduate.
Relevant topics grounded in research and theory that are related to professional development of nursing leadership and management roles in health care organizations.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 771 Nursing Administration Practicum
3 cr. Graduate.
Applying theory and research, the student will explore, discuss, and actively participate in an advanced administration practice role in a healthcare organization.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 773 Information Systems to Support Clinical Decision-Making
3 cr. Graduate.
Basic concepts of nursing informatics are examined with emphasis on application to clinical practice to improve the quality of care.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774 or Soc Wrk 774(P), or cons instr
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 776 Clinical Informatics
3 cr. Graduate.
Examine the development, implementation and evaluation of clinical informatics solutions to facilitate the use of information and communication technologies within and across health care delivery systems.
Prerequisites: grad st
Course Rules: Online only.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 777 Special Topics Seminar:
1-5 cr. Graduate.
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st or cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 780 Study Abroad:
1-9 cr. Graduate.
Designed to enroll graduate students in UWM-sponsored program before content and credits are determined and/or in especially prepared program course work.
Prerequisites: Acceptance for Study Abroad Program.
Course Rules: May be taken w/ chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 781 Psychiatric Mental Health NP Practicum I
3 cr. Graduate.
This is the first of a three-sequence practicum. Emphasis is on beginning clinical assessment, diagnostic evaluation, and beginning management of patients with psychiatric disorders.
Prerequisites: NURS 754 or its equivalent; NURS 753 or its equivalent; NURS 707 or its equivalent (Grad assessment; patho and pharm). Taken concurrently with NURS 741
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 782 Psychiatric Mental Health NP Practicum II
3 cr. Graduate.
This is the second of a three-sequence practicum. Emphasis is on advanced clinical assessment (including social/environmental determinants of health), diagnostic evaluation, and treatment planning.
Prerequisites: NURS 741 and NURS 781. Taken concurrently with NURS 742
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 783 Psychiatric Mental Health NP Practicum III
3 cr. Graduate.
This is the third of a three-sequence practicum. Emphasis is on developing progressive competence in diagnosis and treatment of patients and families with complex needs.
Prerequisites: NURS 742 and NURS 782. Taken concurrently with NURS 743.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 784 Advanced Nursing Practice Interventions
3 cr. Graduate.
Advanced knowledge and skills for developing, implementing, and evaluating nursing interventions for common nursing phenomena with individuals and aggregates.
Prerequisites: grad st; NURS 725(P); admis to Nursing degree program or cons instr.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 789 Master of Nursing Residency II
3 cr. Graduate.
Intensive clinical immersion experience during which students implement the role of the masters-prepared nurse.
Prerequisites: grad st and NURS 734(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 791 Clinical Informatics Practicum I
3 cr. Graduate.
First semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.
Prerequisites: grad st
Course Rules: Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 792 Clinical Informatics Practicum II
3 cr. Graduate.
Second semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.
Prerequisites: grad st
Course Rules: Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.
Last Taught: Summer 2017, Summer 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 793 Clinical Informatics Practicum III
3 cr. Graduate.
Third semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.
Prerequisites: grad st
Course Rules: Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 797 Independent Study for Graduate Students
1-6 cr. Graduate.
Opportunity for students to pursue study in a subject area of special need or interest under guidance of graduate faculty.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 801 Foundations of Inquiry for Health Research
3 cr. Graduate.
Study of historical evolution of contemporary health science in terms of important philosophical and empirical antecedents.
Prerequisites: admis to doctoral prog in Nursing or cons instr.
Last Taught: Fall 2019, Summer 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 802 The Science of Nursing
3 cr. Graduate.
Study of nursing science through the exploration of the interrelationships among the theory, research, and practice of nursing.
Prerequisites: admis to doctoral prog in nursing or cons instr; Nurs 801(NP).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 803 Health Policy
3 cr. Graduate.
Explores the roles and accountability of health care providers and scientists in responding to the health and social needs of the public and shaping of public policy.
Prerequisites: admis to doctoral prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 804 Healthcare Organization and Systems Leadership for Advanced Practice
3 cr. Graduate.
This course focuses on synthesis of leadership concepts for advanced practice nurses in complex healthcare delivery systems.
Prerequisites: Admission to Doctor of Nursing Practice Program.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 805 Translational and Implementation Science
3 cr. Graduate.
In depth exploration of approaches to use of translational and implementation science in the development of practice guidelines and protocols and evaluation of practice change.
Prerequisites: NURS 725.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 808 Multivariate Statistics for Healthcare
3 cr. Graduate.
A study of commonly used multivariate statistical methods as well as their applications to practical data analysis with emphasis on nursing and health care research.
Prerequisites: Grad st
Last Taught: Fall 2019, Summer 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 809 Integrative Studies
3 cr. Graduate.
Synthesis of ideology and content in the student’s specialty area with regard to the research, theory development, and policy roles of the emerging nurse scholar.
Prerequisites: grad st or cons instr.
Last Taught: Summer 2019, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 810 Leadership for Advanced Practice in Healthcare
3 cr. Graduate.
Synthesis of leadership concepts of advanced nursing practice. Interdisciplinary and ethical practice and leading multiple constituencies are emphasized from an evidence based perspective.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 811 Clinical Nurse Specialist Practicum I-Psychiatric/Mental Health
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.
Prerequisites: grad st; Nurs 707(P), 725(P), 754(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 812 Clinical Nurse Specialist Practicum II-Psychiatric/Mental Health
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.
Prerequisites: grad st; Nurs 811(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 813 Clinical Nurse Specialist Practicum III-Psychiatric/Mental Health
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.
Prerequisites: grad st; Nurs 812(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 814 Clinical Nurse Specialist Practicum I-Maternal/Infant
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.
Prerequisites: grad st; Nurs 707(P), 725(P), 754(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 815 Clinical Nurse Specialist Practicum II-Maternal/Infant
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.
Prerequisites: grad st; Nurs 814(P)
Last Taught: Summer 2020, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 816 Clinical Nurse Specialist Practicum III-Maternal/Infant
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.
Prerequisites: grad st; Nurs 815(P)
Last Taught: Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 817 Clinical Nurse Specialist Practicum I-Pediatric
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.
Prerequisites: grad st; Nurs 707(P), 725(P), 754(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 818 Clinical Nurse Specialist Practicum II-Pediatric
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.
Prerequisites: grad st; Nurs 817(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 819 Clinical Nurse Specialist Practicum III-Pediatric
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.
Prerequisites: grad st; Nurs 818(P)
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 820 Analysis of Nursing Phenomena
3 cr. Graduate.
Exploration of selected phenomena relevant to nursing through the evaluation and synthesis of scientific knowledge and grant proposal development.
Prerequisites: Admis to doctoral prog in Nursing; Nurs 802(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 822 Adult-Gerontology Acute Care Nurse Practitioner Practicum I
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in an Acute Care Nurse Practitioner role with the adult-gerontology population.
Prerequisites: NURS 707(P), NURS 753(P) and NURS 754(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 823 Adult-Gerontology Acute Care Nurse Practitioner Practicum II
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in an Acute Care Nurse Practitioner role with the adult-gerontology population.
Prerequisites: NURS 822(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 824 Adult-Gerontology Acute Care Nurse Practitioner Practicum III
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in an Acute Care Nurse Practitioner role with the adult-gerontology population.
Prerequisites: NURS 823(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 825 Evidence Based Practice in Healthcare II
3 cr. Graduate.
In depth exploration of approaches to development of practice guidelines and protocols and evaluation of practice change.
Prerequisites: grad st; NURS 725(P); grad level course in biostatistics
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 826 Nurse Executive Practicum I
3 cr. Graduate.
First semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.
Prerequisites: Nurs 810(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 827 Nurse Executive Practicum II
3 cr. Graduate.
Second semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.
Prerequisites: NURS 826(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 828 Nurse Executive Practicum III
3 cr. Graduate.
Third semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.
Prerequisites: Nurs 827(P).
Last Taught: Fall 2019, Fall 2018, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 829 Advanced Community/Public Health Nursing Practicum I
3 cr. Graduate.
First semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.
Prerequisites: Nurs 835(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 830 Advanced Community/Public Health Nursing Practicum II
3 cr. Graduate.
Second semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.
Prerequisites: Nurs 836(P), 829(P).
Last Taught: Summer 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 831 Advanced Community/Public Health Nursing Practicum III
3 cr. Graduate.
Third semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.
Prerequisites: Nurs 830(P).
Last Taught: Fall 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 832 Clinical Nurse Specialist Practicum I-Adult/Gerontology
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult / geriatric population.
Prerequisites: grad s; NURS 707(P), 725(P), 754(P)
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 833 Clinical Nurse Specialist Practicum II-Adult/Gerontology
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult/geriatric population.
Prerequisites: grad st; NURS: 832(P).
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 834 Clinical Nurse Specialist Practicum III-Adult/Gerontology
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult/geriatric population.
Prerequisites: grad st; NURS 833(P).
Last Taught: Fall 2019, Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
NURS 885 Advanced Quantitative Methods in Health Research
3 cr. Graduate.
In depth study of quantitative research methods with an emphasis on
decision making for intervention studies and research with large data
sets, advanced analytic strategies, communicating and interpreting
results.
Prerequisites: grad st; Nurs 883(P), Nurs 881(P), Multivariate Statistics(P)
or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 886 Advanced Qualitative Methods in Health Research
3 cr. Graduate.
Enable student to acquire the advanced knowledge and skills needed
to design and implement studies best suited to qualitative modes of
investigation.
Prerequisites: grad st; Nurs 882(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load
requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit
load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 890 Issues in Scholarship
3 cr. Graduate.
Critical analysis of issues in scholarship and development of skills in
literature review, scholarly discourse, and ethical conduct of research.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 897 Independent Study for Doctoral Students
1-6 cr. Graduate.
Opportunity for the student to pursue study in a subject area of special
need or interest under the guidance of graduate faculty.
Prerequisites: doctoral student status; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 899 Practicum in Nursing Research
1-6 cr. Graduate.
Mastery of research skills and techniques through participation in faculty
research.
Prerequisites: admis to doctoral prog in nursing or cons instr.
Course Rules: May be repeated to a total of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

NURS 991 Research and Thesis
1-3 cr. Graduate.
Independent research and thesis writing under the supervision of
member of graduate faculty.
Prerequisites: grad st; cons advisor UWM School of Nursing.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Summer 2015, Spring 2015, Fall 2014, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
Nutritional Sciences (NUTR)

NUTR 101 Introduction to the Nutrition Profession
1 cr. Undergraduate.
Introduction to the field of nutritional sciences and related professions.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 110 Introduction to Food Principles & Preparation
3 cr. Undergraduate.
Introduction to the physical and chemical properties of foods, food safety and sanitation, food preparation procedures, and evaluation of prepared food products in a lab setting.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 210 Food Science
3 cr. Undergraduate.
Continued study of the physical/chemical properties of foods; topics include food composition and nutrition, food additives and regulations, food safety and processing, food engineering.
Prerequisites: grade of C or better in Nutr 110(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 235 Introduction to Nutrition for the Health Professions
3 cr. Undergraduate.
A broad, science-based, practical knowledge of nutritional science and metabolism to prepare for health and nutrition professions.
Prerequisites: grade of C or greater in Chem 100(P), Chem 101(P), or Chem 102(P); & Bio Sci 202(P) or (C).
Course Rules: Counts as repeat of Kin 290 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 240 Nutrition for Exercise and Wellness
3 cr. Undergraduate.
The role of nutrition in supporting health, wellness, and exercise on a national, state, community, and individual level.
Prerequisites: grade of C or better in Nutr 235(P) or BMS 232(P).
Course Rules: Counts as repeat of Kin 290 w/same topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 241 Why We Eat What We Eat: An Ecological Approach
3 cr. Undergraduate.
Examination of food choice and eating behavior using a multilevel, social ecological perspective. Nutrition and health implications will be discussed.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 245 Life Cycle Nutrition
3 cr. Undergraduate.
An exploration of physiological, sociological, and developmental factors that affect humans nutritional needs and recommendations throughout the life cycle.
Prerequisites: admis to Nutr major or Nutr minor.
Course Rules: Counts as a repeat of BMS 290 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 290 Special Topics in Nutritional Sciences:
1-3 cr. Undergraduate.
Topics of current interest in nutritional sciences, food, and health. Special course fees may be required depending on course. May be retaken w/chg in topic.
Prerequisites: specified in sem schedule whenever required for a topic.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in a UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
NUTR 350 Nutrition Communication and Education
3 cr. Undergraduate.
Approaches to nutrition and health communication and education; development of nutrition and health-related communication materials for target audiences.
Prerequisites: admits to Nutr major or Nutr minor.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 355 Modifying Nutrition and Eating Behavior
3 cr. Undergraduate.
Introduction to the basic components of nutritional assessment, behavior change theories and techniques, and educational processes for individuals and groups.
Prerequisites: admits to Nutr major or Nutr minor; grade of C or better in NUTR 245(P) or (C).
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 430 Advanced Nutrition and Metabolism
3 cr. Undergraduate/Graduate.
Study of nutrients and their specific functions in metabolic processes; integrating physiology, biochemistry, and nutrition.
Prerequisites: admits to Nutr major or Nutr minor; Chem 103(P) or Chem 501(P) or (C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 430G Advanced Nutrition and Metabolism
3 cr. Undergraduate/Graduate.
Study of nutrients and their specific functions in metabolic processes; integrating physiology, biochemistry, and nutrition.
Prerequisites: admits to Nutr major or Nutr minor; Chem 103(P) or Chem 501(P) or (C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 435 Nutrition and Disease
3 cr. Undergraduate.
Explores nutritional, physiological, and biochemical aspects of disease processes, and examines the role of food and nutrition in disease prevention, management, and treatment.
Prerequisites: admits to Nutr major or Nutr minor; grade of C or better in Nutr 350(P) & Nutr 355(P) or (C).
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 470 Nutrition Internship/Project
4 cr. Undergraduate.
Supervised internship experience or advanced project(s) typically during the last semester of the undergraduate major.
Prerequisites: sr st & admits to Nutr major; grade of C or better in Nutr 355(P) & Nutr 435(P) or (C); cons internship coord.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 484 Community Nutrition Supervised Practice I
2 cr.
Guided by a preceptor, students are introduced to organizations delivering nutrition care in community settings; introductory skills for dissemination of nutrition information are practiced.
Prerequisites: Nutr 345(C) & 355(C); admis Coord Prog in Dietetics.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakeable w/chg in topic.
Last Taught: Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 550 Sports Nutrition
3 cr. Undergraduate/Graduate.
The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance. Counts as repeat of BMS/Kin 590 w/same topic.
Prerequisites: jr st; grade of C or better in Nutr 235(P) or BMS 232(P).
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 550G Sports Nutrition
3 cr. Undergraduate/Graduate.
The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance. Counts as repeat of BMS/Kin 590 w/same topic.
Prerequisites: jr st; grade of C or better in Nutr 235(P) or BMS 232(P).
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 555 Public Health Nutrition and Food Politics
3 cr. Undergraduate/Graduate.
This course highlights the role of food and nutrition in public health programs and services.
Prerequisites: jr st; grade of C or better in Nutr 235(P) or BMS 232(P), Nutr 240(P), & Bio Sci 203(P); or cons instr.
Course Rules: Counts as repeat of BMS(Kin) 290 w/same topic.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 555G Public Health Nutrition and Food Politics
3 cr. Undergraduate/Graduate.
This course highlights the role of food and nutrition in public health programs and services.
Prerequisites: jr st; grade of C or better in Nutr 235(P) or BMS 232(P).
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

NUTR 557 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakeable w/chg in topic.
Last Taught: Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

Occupational Therapy (OCCTHPY)

OCCTHPY 151 Foundations of Scientific Inquiry for Occupational Studies
3 cr. Undergraduate.
Foundation of basic inquiry skills needed to pursue a career in health sciences. Attention is paid to observation, collection, visualization and reporting skills.
Prerequisites: none.
Course Rules: Counts as repeat of OccThpy 290 w/same topic.
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 201 Introduction to Occupational Science and Technology  
3 cr. Undergraduate.  
Survey of professions related to disability, occupation, assistive and quality of life technologies and rehabilitation.  
Prerequisites: none.  
Last Taught: Fall 2019, Summer 2019, Fall 2018, Summer 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 220 Gizmos and Gadgets: Introduction to Assistive Technology  
1-3 cr. Undergraduate.  
Survey of historical, current, and emerging assistive technology devices, services, and rehabilitation and disability through use of internet resources, print resources and guest speakers.  
Prerequisites: none.  
Course Rules: Counts as repeat of OccThpy 290 w/same topic. May be retaken to 3 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective  
3 cr. Undergraduate.  
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.  
Prerequisites: soph st or cons instr.  
Course Rules: BMS(CL Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.  
General Education Requirements: CD, SS  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 250 Concepts of Time and Occupation  
3 cr. Undergraduate.  
Examines the science and application of time related to human occupation, activity, and health through interactive and hands-on learning activities, videos and guest speakers.  
Prerequisites: none.  
Last Taught: Fall 2019, Fall 2018, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 260 Enhancing Health Through Activity, Occupation and Technology I  
3 cr. Undergraduate.  
Introduction to the role of activities, occupations, and technology in the promotion of good health and as interventions for individuals, groups and communities.  
Prerequisites: none.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 280 Applied Human Anatomy for Health Professionals  
3 cr. Undergraduate.  
In-depth study of the human body with emphasis on applications pertinent to health professionals.  
Prerequisites: Bio Sci 203(P) or cons instr.  
Course Rules: Special course fee assessed for lab materials.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 290 Topics in Occupational Therapy:  
1-3 cr. Undergraduate.  
Topics of current interest in occupational therapy. See Schedule of Classes for course offerings. May be retaken with change in topic to max of 9 cr. Prereq: none. Additional prereqs will be listed in the semester Timetable as appropriate.  
Prerequisites: none.  
Course Rules: May be retaken w/chg in topic to max of 9 cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 297 Study Abroad - Occupational Therapy:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.  
Prerequisites: acceptance to Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Fall 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 301 Applied Neuroscience for Health Professionals  
3 cr. Undergraduate.  
A functional approach to the human nervous system and neuropathology. Orientation to evaluation and treatment for neurological disorders.  
Prerequisites: admis to OccThpy prog; KIN(HMS) 325(P) or (C), or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 305 Applied Psychopathology  
3 cr. Undergraduate.  
Survey of psychopathology, psychosocial rehabilitative treatment theory and practice used in mental health settings. Lec, Dis.  
Prerequisites: Acceptance in OccThpy prog; or cons instr.  
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 308 Musculoskeletal Pathology and Occupational Function  
2 cr. Undergraduate.  
The origin, nature, and course of musculoskeletal disorders are described and analyzed within the context of occupational performance and occupational biomechanics.  
Prerequisites: admis to OccThpy prog.  
Current Offerings: https://catalog.uwm.edu/course-search/  

OCCTHPY 315 Group Process in Rehabilitation  
3 cr. Undergraduate.  
Study of, and participation in, group process specific to rehabilitation programs. Experimental.  
Prerequisites: jr st in OccThpy or TherRec, OccThpy 305(P) or TherRec 308(P), or cons instr.  
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 320 Introduction to Ergonomics for Healthcare Professionals
3 cr. Undergraduate.
Introduction to ergonomics and work-related musculoskeletal disorders with special focus on work and settings relevant to Occupational Therapy and other healthcare professions.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019, Fall 2018, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 322 Program Development in Rehabilitation
2 cr. Undergraduate.
Study of the development process for programs in rehabilitation. Lecture, Discussion, Experiential learning.
Prerequisites: jr st in OccThpy prog or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 323 Program Management in Rehabilitation
2 cr. Undergraduate.
Study of the management of programs in rehabilitation.
Prerequisites: sr st in OccThpy prog or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 326 Occupational Therapy in Pediatrics I
3 cr. Undergraduate.
Evaluation of occupational performance and planning for treatment for the birth to 21 y/o population with occupational dysfunction. Includes experiential component.
Prerequisites: jr st in OccThpy; OccThpy 301(P).
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 328 Occupational Therapy in Physical Rehabilitation I
3 cr. Undergraduate.
Application of biomechanical principles to OT evaluation and treatment.
Prerequisites: Acceptance in OccThpy prog.
Last Taught: Spring 2015, Spring 2014, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 329 Occupational Therapy in Gerontology
3 cr. Undergraduate/Graduate.
In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community.
Prerequisites: jr st in OccThpy Prog.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 329G Occupational Therapy in Gerontology
3 cr. Undergraduate/Graduate.
In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community.
Prerequisites: jr st in OccThpy Prog.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 330 Foundations of Professional Practice in Occupational Therapy
1-3 cr. Undergraduate.
Foundation for successful professional practice in the field of occupational therapy. Students will apply knowledge of core professional documents, ethics and leadership. Specific cr announced in Schedule of Classes each time course is offered.
Prerequisites: jr st in OccThpy Prog.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 340 Evidence for Practice I: Applications of Biostatistics
3 cr. Undergraduate.
Applications of instrumentation, biostatistics and epidemiology in occupational studies. Emphasizes research design, measurement and interpretation of statistical results.
Prerequisites: jr st, OccThpy 151(P), Kin 270(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 341 Evidence for Practice II: Appraising Evidence
3 cr. Undergraduate.
Critically examines current research evidence in occupational studies and health care. Emphasizes spectrum of quantitative and qualitative approaches.
Prerequisites: Acceptance in OccThpy prog. or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 350 Professional Development Seminar I
1 cr. Undergraduate.
Integrate academic knowledge with observation skills; refine skills through client observation; complete facility tours and paired visits to OT-related sites.
Prerequisites: Acceptance in OccThpy prog. or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 360 Enhancing Health Through Activity, Occupation and Technology II
3 cr. Undergraduate.
Integrate understanding of relationship of occupation and health, occupation-based intervention and technology. Reflect on personal occupations and design interventions for individuals, groups, communities.
Prerequisites: Acceptance in OccThpy prog. or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 390 Professional Development Seminar II
1 cr. Undergraduate.
Integrate OT academic knowledge with observation and intervention skills; refine skills through client interaction; complete 1st Level I fieldwork
Prerequisites: jr st in OccThpy prog. OccThpy 350(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 401 Overview of Medical Conditions
3 cr. Undergraduate.
Overview of common impairments and related diagnoses such as spinal cord injury, head injury, burns, cognitive disorders and psychiatric disorders with implications for OT practice.
Prerequisites: TherRec 202(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 405 Occupational Therapy in Physical Rehabilitation II
3 cr. Undergraduate.
Neurodevelopmental evaluation and treatment procedures for persons with central nervous system damage. Lec, lab.
Prerequisites: sr st in OccThpy prog; OccThpy 308(P); OccThpy 401(P).
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 411 Occupational Therapy and Psychosocial Rehabilitation
3 cr. Undergraduate.
Advanced clinical techniques in psychosocial occupational therapy emphasizing social skills training, life coping skills, OT evaluations and intervention planning in rehabilitation and community settings.
Prerequisites: sr st in OccThpy prog; OccThpy 305(P) & 315(P).
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 420 Principles of Human Factors and Usability
3 cr. Undergraduate.
Introduction to principles of human factors, interaction, and usability as they pertain to the design of consumer devices and assistive technologies.
Prerequisites: jr st; OccThpy 220(P); or cons instr.
Course Rules: Counts as repeat of OccThpy 590 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 425 Occupational Therapy Senior Seminar
2 cr. Undergraduate.
Summary and analysis of occupational therapy services primarily in physical dysfunction treatment situations. 4-week mini-course.
Prerequisites: 2 sem sr st in OccThpy prog.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 426 Occupational Therapy in Pediatrics II
3 cr. Undergraduate.
Evaluation of occupational performance and treatment implementation for the birth to 21 y/o population with occupational dysfunction. Lec and lab.
Prerequisites: sr st in OccThpy prog; OccThpy 326(P).
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 427 Essentials of Splinting
3 cr. Undergraduate/Graduate.
Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.
Prerequisites: Bio Sci 203(P); Hum Kin 320(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 427G Essentials of Splinting
3 cr. Undergraduate/Graduate.
Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.
Prerequisites: Bio Sci 203(P); Hum Kin 320(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 430 Foundations of Professional Practice in Occupational Therapy III
1-3 cr. Undergraduate.
Fieldwork, lecture, discussions on professional topics; OT in health, education, and community settings. Specific cr announced in Schedule of Classes each time course is offered.
Prerequisites: OccThpy 330(P) & 331(P).
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 460 Professional Development Seminar III
1 cr. Undergraduate.
Integrate OT academic knowledge with observation and interaction skills; develop clinical techniques and analyze/reflect on skills; complete 2nd Level I fieldwork.
Prerequisites: sr st in OccThpy prog; OccThpy 390(P); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 490 Professional Development Seminar IV
1-3 cr. Undergraduate.
Integrate OT academic knowledge with interaction skills; develop clinical techniques and analyze/reflect on skills; work on preparation for Level II fieldwork.
Prerequisites: sr st in OccThpy prog; OccThpy 460(P).
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 497 Study Abroad - Occupational Therapy
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 497G Study Abroad - Occupational Therapy
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance to Study Abroad Prog.
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 505 Work and Disability
3 cr. Undergraduate.
Constructs related to employment of people with disabilities (e.g. legislation; theories; interventions; accommodations; job placement, development, support) taught through experiential learning and case studies.
Prerequisites: jr st, or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 519G Therapeutic Communication
3 cr. Undergraduate/Graduate.
Development of therapeutic communication skills necessary for all occupational therapy practice settings.
Prerequisites: sr st or grad st in OT prog; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 519G Therapeutic Communication
3 cr. Undergraduate/Graduate.
Development of therapeutic communication skills necessary for all occupational therapy practice settings.
Prerequisites: sr st or grad st in OT prog; or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 521 Essentials of Assistive and Rehabilitation Technology
3 cr. Undergraduate.
Fundamentals and applications of assistive and rehabilitation technology for the home, school, hospital, work place and community.
Prerequisites: jr. st, OccThpy 220(P) or cons instr.
Last Taught: Spring 2020, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 530 Contemporary Issues and Professional Preparation in Occupational Studies
3 cr. Undergraduate.
Exploration of contemporary issues and careers in the general areas of occupational studies. Attention is on preparation for entry level employment and/or graduate education.
Prerequisites: sr st, OccThpy 401(C) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 540 Evidence for Practice I
3 cr. Undergraduate/Graduate.
Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence.
Prerequisites: sr st or grad st in OT prog.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 540G Evidence for Practice I
3 cr. Undergraduate/Graduate.
Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence.
Prerequisites: sr st or grad st in OT prog.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 541 Evidence for Practice II: Creating Evidence
3 cr. Undergraduate/Graduate.
Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.
Prerequisites: sr st in OccThpy & OccThpy 341(P); or grad st in OccThpy; or cons instr.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 541G Evidence for Practice II: Creating Evidence
3 cr. Undergraduate/Graduate.
Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.
Prerequisites: sr st in OccThpy & OccThpy 341(P); or grad st in OccThpy; or cons instr.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 550G Upper Extremity Evaluation and Treatment in Hand Therapy
3 cr. Graduate.
Evaluation and treatment of the upper extremity. Techniques of patient evaluation, pertinent anatomy, and recovery.
Prerequisites: grad st in OccThpy prog or DPT prog; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 550G Upper Extremity Evaluation and Treatment in Hand Therapy
3 cr. Graduate.
Evaluation and treatment of the upper extremity. Techniques of patient evaluation, pertinent anatomy, and recovery.
Prerequisites: grad st in OccThpy prog or DPT prog; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 590 Topics in Occupational Therapy:
1-3 cr. Undergraduate/Graduate.
Topics of current interest in O.T. see Schedule of Classes for course offerings.
Prerequisites: jr st in OccThpy prog or cons instr.
Course Rules: May be retaken with change in topic to max of 9 cr.
Last Taught: Summer 2020, Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 590 Topics in Occupational Therapy:
1-3 cr. Undergraduate/Graduate.
Topics of current interest in O.T. see Schedule of Classes for course offerings.
Prerequisites: jr st in OccThpy prog or cons instr.
Course Rules: May be retaken with change in topic to max of 9 cr.
Last Taught: Summer 2020, Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 593 Introduction to Biomedical and Rehabilitation Instrumentation
3 cr. Undergraduate/Graduate.
Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 593G Introduction to Biomedical and Rehabilitation Instrumentation
3 cr. Undergraduate/Graduate.
Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 595 Vision I: Introduction to Low Vision & Visual Impairment
3 cr. Undergraduate/Graduate.
Introduces student to visual impairment including blindness and 'low vision'. Structure and function of the visual system and most common types of pathology.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 595G Vision I: Introduction to Low Vision & Visual Impairment
3 cr. Undergraduate/Graduate.
Introduces student to visual impairment including blindness and 'low vision'. Structure and function of the visual system and most common types of pathology.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2020, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 596 Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention
3 cr. Undergraduate/Graduate.
Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 596G Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention
3 cr. Undergraduate/Graduate.
Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 599 Independent Study
1-6 cr. Undergraduate.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken for degree cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 610 Advances in Occupational Science
3 cr. Undergraduate/Graduate.
Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice.
Prerequisites: sr st in Baccalaureate OccThpy prog or grad st.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 610G Advances in Occupational Science
3 cr. Undergraduate/Graduate.
Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice.
Prerequisites: sr st in Baccalaureate OccThpy prog or grad st.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 620 Introduction to Assistive and Rehabilitation Technology
3 cr. Undergraduate/Graduate.
Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use.
Prerequisites: jr st; OccThpy 401(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 620G Introduction to Assistive and Rehabilitation Technology
3 cr. Undergraduate/Graduate.
Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use.
Prerequisites: jr st; OccThpy 401(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 625 Design and Disability
3 cr. Undergraduate/Graduate.
Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 625G Design and Disability
3 cr. Undergraduate/Graduate.
Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 626 Design and Disability
3 cr. Undergraduate/Graduate.
Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
Current Offerings:

**OCCTHPY 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities**
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
*Prerequisites:* jr st.
*Course Rules:* ExcEd 634, Occthpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.
*Last Taught:* Spring 2020, Summer 2010.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 634G Collaborative Consultation/Teaming-Serving Young Children with Disabilities**
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
*Prerequisites:* jr st.
*Course Rules:* ExcEd 634, Occthpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.
*Last Taught:* Spring 2020, Summer 2010.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 701 Advanced Measurement and Instrumentation in Health Care**
3 cr. Graduate.
Reviews and critiques measurement theories and instruments used by health related researchers and professionals. Includes traditional, outcome and contemporary methods differing from classical psychometric theory.
*Prerequisites:* grad st.
*Last Taught:* Fall 2016, Fall 2015, Fall 2014, Fall 2013.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 703 Applied Neuroscience**
3 cr. Graduate.
Emphasizes neurophysiology, neuroanatomy and disorders of the nervous system. Focus on relationship between structure and function of the nervous system as applied to OT.
*Prerequisites:* grad st in OT prog
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 704 Musculoskeletal Analysis and Occupational Function**
3 cr. Graduate.
The origin, nature, and course of musculoskeletal and neurological disorders and their relationship to clinical biomechanics and occupational performance.
*Prerequisites:* grad st in OT prog
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 705 Occupational Therapy in Physical Rehabilitation I**
3 cr. Graduate.
Development of assessment skills for common medical conditions that occupational therapists encounter in physical rehabilitation settings.
*Prerequisites:* grad st in OT prog
*Last Taught:* Fall 2019, Fall 2018, Fall 2017, Fall 2016.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 706 Occupational Therapy in Physical Rehabilitation II**
2-6 cr. Graduate.
Clinical application of occupational therapy interventions in a variety of rehabilitation settings.
*Prerequisites:* grad st in OT program
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 707 Professional Development Seminar I**
1 cr. Graduate.
Exploration of social and cultural factors that impact occupational therapy practice; includes 30 hours of service learning.
*Prerequisites:* grad st; Admis. to MSOT program
*Last Taught:* Fall 2019, Fall 2018, Fall 2017, Fall 2016.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 708 Professional Development Seminar II**
1 cr. Graduate.
Development of skills in critical evaluation of OT practice through integration of academic knowledge and 40 hours of Level I fieldwork experience.
*Prerequisites:* grad st; Admis. to MSOT program, B- or better in Occthpy 707, or cons. instr
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 709 Professional Development Seminar III**
1 cr. Graduate.
Critical evaluation of OT practice and preparation for Level II fieldwork through integration of academic knowledge and 40 hour Level I fieldwork experience.
*Prerequisites:* grad st; Admis. to MSOT program, B- or better in Occthpy 708, or cons. instr
*Last Taught:* Fall 2019, Fall 2018, Fall 2017, Fall 2016.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 710 Community Models of Occupational Therapy Practice**
2 cr. Graduate.
Evaluation and application of occupational therapy knowledge to a wide array of community settings.
*Prerequisites:* grad st in Occthpy prgrm or cons instr
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 711 Professional Leadership for Occupational Therapists**
3 cr. Graduate.
Critical analysis of trends, practice issues and strategies in the field of occupational therapy.
*Prerequisites:* grad st in OT program
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**OCCTHPY 718 Occupational Therapy in Acute Care**
1-3 cr. Graduate.
This course provides a foundation for entry-level OT practitioners in the acute care setting with an awareness of common medical conditions and their treatment implications.
*Prerequisites:* grad st in Occthpy prgrm or cons instr.
*Course Rules:* retakeable to 3 cr max.
*Current Offerings:* [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
OCCTHPY 719 Occupational Therapy in Psychosocial Practice
3 cr. Graduate.
The nature of human occupation, areas of occupation, performance skills, and performance patterns within varied contexts for persons with behavioral and psychiatric disorders.
Prerequisites: grad st in OT program
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 720 Application of Occupational Science and Occupational Therapy Theory
3 cr. Graduate.
Critical analysis of occupational science and occupational therapy theories as they relate to practice issues, strategies, and research.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 721 Foundations of Professional Practice in Occupational Therapy
2 cr. Graduate.
Foundations for successful professional practice in the field of occupational therapy.
Prerequisites: grad st in OT program
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 724 Advanced Design and Disability
3 cr. Graduate.
Accessible and universal design principles, theories and practices are taught enabling evaluation and design of products and environments for people with and without disabilities.
Prerequisites: Grad standing required; One class in assistive technology prior to this course recommended.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 725 Occupational Therapy Field Service I
6 cr. Graduate.
Provides students with opportunity to apply knowledge and practice in clinical setting through participation in therapy under supervision; integrates academic with professional knowledge.
Prerequisites: grad st; successful completion of required prof. entry courses
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 735 Occupational Therapy Field Service II
6 cr. Graduate.
Provides students with opportunity to apply knowledge and practice in clinical setting through participation in therapy under supervision; development of advanced knowledge and skills.
Prerequisites: grad st; OccThpy 725(C).
Last Taught: Summer 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 740 Occupational Therapy with Children and Families
1-4 cr. Graduate.
Examines current practices and future trends for evaluation and treatment of occupational performance between birth and 21 years of age within family and community contexts.
Prerequisites: grad st in OCCTHPY Program.
Course Rules: Re-takeable to 4 cr max w/ chg in topic.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 741 Research Seminar
1 cr. Graduate.
Scholarly discussion forum for graduate students completing their thesis/project.
Prerequisites: grad st; OccThpy 890(C) or 990(C) or cons instr.
Last Taught: Spring 2014, Fall 2013, Spring 2011, Summer 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 743 Advances in Child and Family Centered Occupational Therapy
2-3 cr. Graduate.
Exploration of child development and family systems from an ecological perspective. Current evaluation and intervention strategies are studied through contemporary trends and evidence for practice.
Prerequisites: OccThpy 740 or cons of instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 744 Advanced Occupational Therapy for Aging Adults
1-3 cr. Graduate.
The aging of America has wide-ranging implications for occupational therapy. This course provides students with knowledge and skills to evaluate and work with older adults.
Prerequisites: grad st in OccThpy progrm or cons instr.
Course Rules: Retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 745 Occupational Therapy Field Service III
1-6 cr. Graduate.
Additional, optional field placement beyond ACOTE requirements to accommodate special interests in treatment, health care systems and other professional settings.
Prerequisites: grad st; OccThpy 735 (C)
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 750 Computer Applications in Occupational Therapy Practice
3 cr. Graduate.
Exploration of the current and future uses of computer technology in the field of occupational therapy. Completion of a student-designed software application.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 760 Assistive and Rehabilitation Technology
3 cr. Graduate.
Surveys the use of assistive technology devices and applications for people with motor, sensory, and cognitive impairments.
Prerequisites: grad st; college-level computer course or equiv or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 770 Assessment in Assistive Technology and Accessible Design
3 cr. Graduate.
Background theory, principles of selection, application in practice, and procedures for applying assistive technology (AT) and universal design (UD) assessment and instrumentation.
Prerequisites: grad st; OccThpy 620(P) or cons instr
Last Taught: Summer 2020, Fall 2019, Summer 2019, Summer 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774 or Soc Wrk 774(P), or cons instr
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Spring 2019, Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 777 Fieldwork in Assistive Technology
1-6 cr. Graduate.
Provides students with a school- or clinic-based experience in the delivery of assistive technology services.
Prerequisites: grad st & cons instr.
Course Rules: ExcEduc 777 & OccThpy 777 are jointly offered; they count as repeats of one another. May be retaken for 9 cr max.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 780 Physical Agents in Rehabilitation
1-3 cr. Graduate.
Application of physical agents to restore functional abilities in a rehabilitation setting; includes review of research literature and competency testing.
Prerequisites: Grad st in OccThpy progrm or cons instr.
Course Rules: retakable to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 786 Applied Biostatistics in Ergonomics
3 cr. Graduate.
Statistical methods used in ergonomic studies to analyze, summarize, and report measurements and data. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580; a course in statistics or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ind Eng 786.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 788 Legal Issues and Regulatory Agencies in Ergonomics
1 cr. Graduate.
Understanding of ergonomic regulations, regulatory sets, and agencies’ and workers’ compensations laws.
Prerequisites: grad st; Ind Eng 580(P); a course in statistics or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ind Eng 788.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 790 Design Project
2-3 cr. Graduate.
Integration and application of concepts learned in other ergonomic courses to analyze and abate ergonomic hazards in a scientific manner.
Prerequisites: grad st; Ind Eng 780(P), 783(P), 786(P), 788(P) or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ind Eng 790.
Last Taught: Fall 2016, Spring 2016, Fall 2014, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 810 Critical Evaluation of Theory, Research and Practice
2 cr. Graduate.
Appraisal and application of knowledge and concepts acquired in academic and fieldwork education to occupational therapy practice.
Prerequisites: grad st in OT program or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 880 Master's Project
1-6 cr. Graduate.
Preparation of an individual project under the supervision of the student's major advisor.
Prerequisites: grad st; cons advisor.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 890 Research and Thesis
1-6 cr. Graduate.
Production of a thesis under the supervision of the student's major professor with the consultation of the degree committee.
Prerequisites: grad st; cons advisor.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 900 Teaching, Learning and Educational Leadership in the Health Sciences
3 cr. Graduate.
Overview of higher education in the health sciences and the responsibilities of the professoriate in fulfilling the missions of research, teaching, and service.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 909 Guided Teaching Experience in Health Sciences
HCA909, HMS909, and ComSDis909.
Course Rules: Grad st; Ind Eng 900 (P); cons instr.
Last Taught: Summer 2020, Fall 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
OCCTHPY 990 Research and Dissertation
1-6 cr. Graduate.
Production of a dissertation under the supervision of the student’s major professor with the consultation of the degree committee.
Prerequisites: grad st; cons advisor.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

OCCTHPY 999 Advanced Independent Study
1-3 cr. Graduate.
Supervised investigation of particular topic area either not covered by other occupational therapy courses or at a level of sophistication beyond that in a course.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

Online Collaborative AAS Program (UWX)

UWX AN100 Introduction to Anthropology
3 cr.
Basic principles and concepts of anthropology and its four subfields—Physical/Biological, Archaeology, Socio-Cultural and Linguistic. Provides a better understanding of the differences and similarities that exist among human societies and cultures.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX AR175 Worlds of Art
3 cr.
Introduction to visual arts for the non-art major. Will focus on art created by marginalized groups in the U.S. Multicultural perspectives explored specifically impact of race, ethnicity, and gender on production, criticism, philosophies, aesthetics.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX BL101 Concepts of Biology
4 cr.
An introduction to the fundamental principles of living organisms. Topics include cell structure and function, growth, basic physiological processes of living organisms, reproduction and inheritance, classification systems, evolution, and diversity of life.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX BU101 Introduction to Business
3 cr.
Overview of the environment, principles, and functions of business. Gain understanding of business terminology and practices essential for success in industry. Will learn functional areas of business including economics, management, marketing, technology, accounting, and finance.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX CM101 Introduction to Public Speaking
3 cr.
This course offers communication experiences intended to improve student’s public speaking and listening skills across a broad spectrum of situations including intercultural communication, public communication, small group communication and interpersonal communication.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX CS130 Introduction to Programming
3 cr.
Learn many of the fundamentals of computer programming, including (but are not limited to) the vocabulary of computer programming, algorithms, use of computer programming to solve problems, fundamental control structures, and function/procedure-writing.
Prerequisites: UWX MA116 (College Algebra) or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EC203 Macroeconomics
3 cr.
The emphasis of the course is on macroeconomics analysis and covers areas such as national income, commercial banking, business fluctuations, monetary and fiscal policies and International Trade.
Prerequisites: UWX MA093 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EN098 Introduction to College Writing
0 cr.
A composition course focusing on the conventions of academic writing, the composing process, critical thinking, and critical reading. Emphasis on reading and writing activities designed to prepare students for successful transition to college-level writing.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EN101 College Writing and Critical Reading
3 cr.
A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings.
Prerequisites: a grade of C or better in UWX EN098 (or equivalent) or exemption through appropriate placement assessment
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EN102 Critical Writing and Research
3 cr.
A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading.
Prerequisites: a grade of C or better in UWX EN101 (or equivalent) or exemption through appropriate placement assessment
Current Offerings: https://catalog.uwm.edu/course-search/
UWX EN203 Creative Writing
3 cr.
Workshop-based course, students will read creative writing and produce their own original works. Students will share drafts with peers, revise work based on feedback, and write reflectively and analytically about their own processes and products.
Prerequisites: placement into or completion of UWX EN101 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EN210 Business Communication
3 cr.
This course teaches students to effectively communicate in a variety of business settings. Students write messages, reports, proposals, and other professional documents. Students also plan and present an oral report.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EN250 Introduction to Literature
3 cr.
Introduction to literary studies through its fundamental approaches to reading, interpreting, and writing about a variety of texts, from the classic to the contemporary with the goal of understanding, appreciating, and enjoying literature.
Prerequisites: exemption from UWX EN098 based on placement test score or completion of UWX EN098 (or equivalent) or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX EN278 Multicultural Literature in the United States
3 cr.
A study of literature written by writers from minority groups in the U.S. Includes readings by contemporary writers focusing on experiences of African, Asian, Hispanic, and Native Americans through their essays, poetry, fiction, and drama.
Prerequisites: exemption from UWX EN101 based on placement test score or completion of UWX EN101 (or equivalent) or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX ES105 Introduction to Environmental Studies
3 cr.
Study of various environmental hazards, causes, impacts, mitigations, including natural hazards (earthquakes, flooding, tornadoes, hurricanes), and anthropogenic hazards (climate change, nuclear hazards, overpopulation). Additional topics may be covered: coastal, atmospheric and biochemical hazards, terrorism, extinctions.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX GE170 Disasters: Living on the Edge
4 cr.
Study of various environmental hazards, causes, impacts, mitigations, including natural hazards (earthquakes, flooding, tornadoes, hurricanes), and anthropogenic hazards (climate change, nuclear hazards, overpopulation). Additional topics may be covered: coastal, atmospheric and biochemical hazards, terrorism, extinctions.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX HS102 US History Since 1877
3 cr.
A survey of American political, economic, social, and intellectual history from the era of the Civil War to the present. Thoroughly integrates the historical experiences and contributions of racial and ethnic minorities within US society.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX HS127 The World in the 20th Century
3 cr.
Develop an understanding of human history since 1900. In this endeavor, students will engage questions of what constitutes historical knowledge, how historical analysis and narratives are constructed, and to what purpose.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX LB103 Diversity in the US
3 cr.
A study of diversity in the US. Focuses on historical and current ways in which women's lives are shaped by structures of power, analyzing how gender works in society/ everyday lives. Topics include feminist theory, intersectional identity, construction of gender, and reproductive justice.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX LB105 Introduction to Gender, Sexuality, and Women's Studies
3 cr.
Focuses on historical and current ways in which women's lives are shaped by structures of power, analyzing how gender works in society/ everyday lives. Topics include feminist theory, intersectional identity, construction of gender, and reproductive justice.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MA091 Elementary Algebra
0 cr.
Intended for students with little or no previous algebra experience. Topics include real number system, operations with real numbers and algebraic expressions, linear equations and inequalities, polynomials, factoring, graphing linear equations, introduction to quadratic equations.
Prerequisites: none. However, a UW System math placement exam is required before registering for any math course to ensure that you enroll in a course that is appropriate for you.
Current Offerings: https://catalog.uwm.edu/course-search/
UWX MA093  Intermediate Algebra
3 cr.
Emphasizes algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations and inequalities. Introduction to functions, their graphs, and analytic geometry.
Prerequisites: a grade of C or better in UWX MA091 (or equivalent) or placement based on placement test score.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MA108  Quantitative Reasoning
3 cr.
Develop analytic reasoning and the ability to solve quantitative problems. Topics include construction and interpretation of graphs, functional relationships, descriptive statistics, math of finance, and exponential growth.
Prerequisites: a course in plane geometry and one of the following: Placement based on MPT score or a grade of C or better in UWX MA091 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MA113  Trigonometry
2 cr.
Trigonometric functions, their basic properties and graphs, identities, inverse trigonometric functions, solving trigonometric equations, solutions of triangles.
Prerequisites: UWX MA116 or suitable mathematics placement test score.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MA116  College Algebra
3 cr.
Study of properties of elementary functions, such as polynomial, absolute value, piecewise, radical, rational, exponential, and logarithmic functions. Topics include equations, inequalities, functions, and their graphs. Will formulate, analyze, solve, and interpret mathematical, real-world problems.
Prerequisites: UWX MA093 (or equivalent) or placement score of MPT score of 470 or higher.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MA117  Elementary Statistics
4 cr.
Collection and analysis of data, descriptive statistics - graphical and numerical, elementary probability, general and sampling distributions; the fundamentals of statistical inference: confidence intervals, hypothesis testing, simple regression, correlation, math of finance, one-way ANOVA.
Prerequisites: a grade of C or better in UWX MA093 or UWX MA108 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MA221  Calculus I
5 cr.
Calculus I is based on the study of real valued functions of a single variable. Topics include limits and continuity, derivatives, antiderivatives, definite integrals and Riemann sums. Applications of differentiation and integration are also covered.
Prerequisites: a grade of C or better in UWXMA 116 and UWX MA113 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX MU278  Rock and Roll Roots
3 cr.
Rock and Roll evolved from blues, jazz, gospel, and folk musical genres. Reveals the connections between, and fusion of, these musical styles and how they influenced the nearly 70 years of Rock and Roll history.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX PH121  Critical Thinking
3 cr.
Process of identifying, analyzing, evaluating, and constructing reasoning in deciding what conclusions to draw or actions to take. An approach to critical thinking that allows understanding of how others think and enables clearer thinking.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX PH237  Technology, Values, and Society
3 cr.
Philosophical investigation of technology and its relation to society and the individual. An examination of ethical issues in technology, including freedom, censorship, privacy, equality, democratic participation, intellectual property, education, law enforcement, institutional change, and work.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX PL104  Introduction to American Government and Politics
3 cr.
Examines how the American political system works, with emphasis on the U.S. Constitution, civil and political rights, the party system, elections, and the structure, powers, and processes of Congress, the presidency, and the courts.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX PS101  General Psychology
3 cr.
This introductory behavioral science course emphasizes the history of the field of psychology, research methods, the biological basis of behavior, human cognition, human development, social behavior, and mental health.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX PS250  Lifespan Psychology
3 cr.
This course presents a survey of human development theories and research. Topics include the biological, cognitive, emotional, and social development of the individual from the prenatal period through old age.
Prerequisites: a grade of C- or better in UWX PS101 or equivalent.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX RE101  Introduction to Religion
3 cr.
Introduction to a number of the world¿s major religious traditions (Hinduism, Buddhism, Confucianism, Christianity, Judaism, and Islam) as well as several ways of studying these religions (anthropology, psychology, sociology, phenomenology, and economic approaches).
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/
UWX SC101 Introduction to Sociology
3 cr.
Sociology is a field of behavioral science that examines social relationships in a systematic way. Studies people in interaction with each other on a personal level, within/across social organizations, and across larger social systems.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX SC231 Crime and Criminal Justice
3 cr.
American systems of Criminal Law/Justice in socio-historical context. Presents and critiques the branches of the Criminal Justice system against five philosophies of criminal justice. Explores how crime is defined and measured, theorize causes of crime.
Prerequisites: not recommended for first semester students.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX SP101 First Semester Spanish
4 cr.
Designed for students who have little/no previous training in the language. The fundamentals of pronunciation and grammar are presented through reading, writing, speaking, and listening activities. Introduces cultures of Spanish-speakers in the US and abroad.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

UWX SS310 Media Literacy
3 cr.
Designed to help students develop an informed, critical and practical understanding of the media and examines examples of media messages including entertainment, commercial and social media to critically evaluate the sources and target audiences.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

Peace Studies (PEACEST)

PEACEST 201 Introduction to Conflict Resolution and Peace
3 cr. Undergraduate.
Violent and peaceful strategies of conflict resolution; viability of various plans for permanent world peace.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 219 Topics in Power and Conflict
3 cr. Undergraduate.
Examination of topics concerned with power, conflict, and non-violent methods of conflict resolution.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2019, Spring 2014, Fall 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 489 Internship in Peace Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Summer 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PEACEST 699 Advanced Independent Study
1-6 cr. Undergraduate.
Advanced level independent work under the supervision of a peace studies faculty or academic staff member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Retakeable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
Philosophy (PHILOS)

PHILOS 101 Introduction to Philosophy
3 cr. Undergraduate.
Introduction to the philosophical thinking through examination of such topics as Plato’s and Aristotle’s contribution to Western civilization; free will and moral responsibility; God, morality, and knowledge.
Prerequisites: none.
Course Rules: May not be retaken for add'l cr; may be repeated for higher grade.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 111 Introduction to Logic - Critical Reasoning
3 cr. Undergraduate.
Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.
Prerequisites: ACT math subscore of 18 or higher, or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in MATH 90 or MATH 102; or (c) grade of D in MATH 94.
Course Rules: PHILOS 111 and MATH 111 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 204 Introduction to Asian Religions
3 cr. Undergraduate.
Philosophy of Asian religions; emphasis on the Indian experience of Hinduism and Buddhism, and the Chinese experience of Buddhism, Confucianism, and Taoism.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 207 Religion and Science
3 cr. Undergraduate.
The alleged conflict between science and religion: case histories, analysis of the issues, implications for the concepts of religious beliefs and scientific knowledge.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 211 Elementary Logic
3 cr. Undergraduate.
Introduction to traditional and modern logic; the concepts of argument, validity; proof, fallacy, persuasion, and reasoning; the development of certain practical skills.
Prerequisites: satisfaction of QL-A.
General Education Requirements: HU, QLB
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 212 Modern Deductive Logic
3 cr. Undergraduate.
A second course in symbolic logic that develops the skills in symbolic translation and proof construction acquired in Philos 211, investigates more abstractly the properties of formal systems of proof.
Prerequisites: grade C or better in Philos 211(P).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 213 Introduction to the Philosophy of Science
3 cr. Undergraduate.
Course for beginning students dealing with such problems as induction vs deduction; hypotheses and theories and their relation to observation; explanation and prediction.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 215 Belief, Knowledge, and Truth: An Introduction to the Theory of Knowledge
3 cr. Undergraduate.
Grounds of rational belief and knowledge and methods used for obtaining them, with particular emphasis on problems of evidence and truth.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 217 Introduction to Metaphysics
3 cr. Undergraduate.
Introduction to the major problems of metaphysics, such as the mind-body problem, the free will-determinism issue, and the nature of causality.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 232 Topics in Philosophy:
3 cr. Undergraduate.
A course for beginning students dealing with such philosophical problems as freedom of will, skepticism, or a historical figure or movement.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 235 Philosophical Aspects of Feminism
3 cr. Undergraduate.
A course for beginning students dealing with selected philosophical issues underlying feminist ideas and problems.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 237 Technology, Values, and Society
3 cr. Undergraduate.
Discussion of controversies over whether modern technology is a progressive or regressive force in human life; impact of technology on individual and institutional values.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 241 Introductory Ethics
3 cr. Undergraduate.
Development of moral ideas. Criticism of ethical theories and of social institutions such as state, property, and family.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 242 Introduction to Social and Political Philosophy
3 cr. Undergraduate.
Opposing philosophical views about man and his political and social life.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2015, Spring 2014, Fall 2011, Spring 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 243 Moral Problems:
1 cr. Undergraduate.
Intensive study of one moral issue of current relevance.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 244 Ethical Issues in Health Care:
3 cr. Undergraduate.
Study of ethical issues facing patients, providers, and public policy planners: e.g., ethical response to terminal illness, equity in health care delivery.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 245 Critical Thinking and the Law:
3 cr. Undergraduate.
Development of critical and analytical skills using legal reasoning as a model and law texts as sources.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 250 God, Faith and Reason
3 cr. Undergraduate.
Major questions: What is God? Can God’s existence (or non-existence) be proved? How? What is religious faith? Is faith rational? Is faith ethical or wise?
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 253 Philosophy of the Arts
3 cr. Undergraduate.
The creation, appreciation, and criticism of works of art. Sources and use of standards.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Summer 2014, Fall 2012, Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 271 Philosophical Traditions:
3 cr. Undergraduate.
Survey of one significant philosophical tradition.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 272 Philosophical Classics:
1 cr. Undergraduate.
Intensive study of one short work of special importance in the philosophic literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 289 Internship in Philosophy, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of philosophy in a business, organizational, educational, political, or other appropriate setting.
**Prerequisites:** intro course in philos; 2.25 gpa; cons supervising faculty member.
**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined, and/or in specially prepared program course work.
**Prerequisites:** acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
**Prerequisites:** none; add'l prereqs may be assigned to specific topic.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 303 Mind and Knowledge
3 cr. Undergraduate/Graduate.
Studies the natures of action, belief and knowledge and the constraint that knowledge imposes on responsible action and belief, both in individuals and across society.
**Prerequisites:** jr st; Philos 101(P) or 215(P).
**Last Taught:** Spring 2020, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 303G Mind and Knowledge
3 cr. Undergraduate/Graduate.
Studies the natures of action, belief and knowledge and the constraint that knowledge imposes on responsible action and belief, both in individuals and across society.
**Prerequisites:** jr st; Philos 101(P) or 215(P).
**Last Taught:** Spring 2020, Spring 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 317 Metaphysics
3 cr. Undergraduate/Graduate.
Study of perennial philosophical issues about the nature of the world and our relation to it; realism, idealism, causality, the mind-body problem, time, truth.
**Prerequisites:** jr st & 3 cr in philos.
**Last Taught:** Spring 2019, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 317G Metaphysics
3 cr. Undergraduate/Graduate.
Study of perennial philosophical issues about the nature of the world and our relation to it; realism, idealism, causality, the mind-body problem, time, truth.
**Prerequisites:** jr st & 3 cr in philos.
**Last Taught:** Spring 2019, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 324 Philosophy of Science
3 cr. Undergraduate/Graduate.
Study of traditional and recent views about the nature, aim and ways of evaluating scientific theories, with reference to both the natural and social sciences.
**Prerequisites:** jr st & 3 cr in philos.
**Last Taught:** Spring 2018, Fall 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 324G Philosophy of Science
3 cr. Undergraduate/Graduate.
Study of traditional and recent views about the nature, aim and ways of evaluating scientific theories, with reference to both the natural and social sciences.
**Prerequisites:** jr st & 3 cr in philos.
**Last Taught:** Spring 2018, Fall 2014.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 332 Philosophical Problems:
3 cr. Undergraduate.
Specific philosophical topic or issue, such as contemporary aesthetics, personal identity, the mind-body problem, the nature of beauty, equality, the just-war doctrine.
**Prerequisites:** jr st; 3 cr in philos.
**Course Rules:** Not open for cr to students w/cr in Philos 381 w/similar subtitle. May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Fall 2019, Fall 2018, Spring 2017, Fall 2015.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 335 Philosophy of Biology
3 cr. Undergraduate/Graduate.
Philosophical study of topics in the biological sciences, such as evolutionary explanations, genetic determinism, the definition of life, what constitutes a biological individual.
**Prerequisites:** jr st; 3 cr in philos.
**Last Taught:** Fall 2010, Spring 2005.
**Current Offerings:** https://catalog.uwm.edu/course-search/

PHILOS 335G Philosophy of Biology
3 cr. Undergraduate/Graduate.
Philosophical study of topics in the biological sciences, such as evolutionary explanations, genetic determinism, the definition of life, what constitutes a biological individual.
**Prerequisites:** jr st; 3 cr in philos.
**Last Taught:** Fall 2010, Spring 2005.
**Current Offerings:** https://catalog.uwm.edu/course-search/
PHILOS 337 Environmental Ethics
3 cr. Undergraduate/Graduate.
Theories of environmental ethics, practical application. Responsibilities to nature/future generations; moral value/status of environment and organisms; philosophical issues concerning environmental studies and ecology.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 337G Environmental Ethics
3 cr. Undergraduate/Graduate.
Theories of environmental ethics, practical application. Responsibilities to nature/future generations; moral value/status of environment and organisms; philosophical issues concerning environmental studies and ecology.
Prerequisites: jr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 341 Modern Ethical Theories
3 cr. Undergraduate.
Ethical theories and problems as discussed in the late nineteenth, twentieth, and twenty-first centuries.
Prerequisites: jr st; 3 cr in philos; satisfaction of OWC-A.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 349 Great Moral Philosophers
3 cr. Undergraduate/Graduate.
Major themes of moral philosophy from Plato and Aristotle to Bentham and Mill, with critical study of the outstanding works.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 349G Great Moral Philosophers
3 cr. Undergraduate/Graduate.
Major themes of moral philosophy from Plato and Aristotle to Bentham and Mill, with critical study of the outstanding works.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 350 Introduction to the Comparative Study of Religion
3 cr. Undergraduate/Graduate.
Analysis of the nature of religion, of various comparative typological classifications and methodological approaches; basic problems in understanding the varieties of religious experience and expression.
Prerequisites: jr st; Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 350G Introduction to the Comparative Study of Religion
3 cr. Undergraduate/Graduate.
Analysis of the nature of religion, of various comparative typological classifications and methodological approaches; basic problems in understanding the varieties of religious experience and expression.
Prerequisites: jr st; Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 351 Philosophy of Mind
3 cr. Undergraduate/Graduate.
Critical study of the nature of mind and its relation to body and matter, with emphasis on recent advances in philosophy and psychology.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 351G Philosophy of Mind
3 cr. Undergraduate/Graduate.
Critical study of the nature of mind and its relation to body and matter, with emphasis on recent advances in philosophy and psychology.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 355 Political Philosophy
3 cr. Undergraduate/Graduate.
Philosophical doctrines involved in justification of political decisions; analysis of fundamental concepts such as the common good, authority, justice, natural law, and natural rights.
Prerequisites: jr st; Philos 242(P) or a course in ethics.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 355G Political Philosophy
3 cr. Undergraduate/Graduate.
Philosophical doctrines involved in justification of political decisions; analysis of fundamental concepts such as the common good, authority, justice, natural law, and natural rights.
Prerequisites: jr st; Philos 242(P) or a course in ethics.
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 358 Action, Will, and Freedom
3 cr. Undergraduate/Graduate.
The nature of the will, agency, intentional action, and the problem of free will and determinism.
Prerequisites: jr st, 3 cr philos; or grad st.
Last Taught: Spring 2020, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 358G Action, Will, and Freedom
3 cr. Undergraduate/Graduate.
The nature of the will, agency, intentional action, and the problem of free will and determinism.
Prerequisites: jr st, 3 cr philos; or grad st.
Last Taught: Spring 2020, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 360 Philosophy of Perception  
3 cr. Undergraduate/Graduate.  
Major issues in the philosophy of perception: the nature of sensation, perception and inference, the relationship of perception and belief.  
Prerequisites: jr st, 3 cr in Philos.  
Last Taught: Fall 2011, Spring 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 360G Philosophy of Perception  
3 cr. Undergraduate/Graduate.  
Major issues in the philosophy of perception: the nature of sensation, perception and inference, the relationship of perception and belief.  
Prerequisites: jr st; 3 cr in Philos.  
Last Taught: Fall 2011, Spring 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 381 Honors Seminar:  
3 cr. Undergraduate.  
Intensive study of selected philosophers, movements, or philosophical problems.  
Prerequisites: soph st; Honors 200(P); cons Honors College dir.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
General Education Requirements: HU  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 384 The Philosophy of Law  
3 cr. Undergraduate/Graduate.  
The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.  
Prerequisites: jr st; 3 cr philos or previous course in political theory or law studies recom.  
Course Rules: Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 384G The Philosophy of Law  
3 cr. Undergraduate/Graduate.  
The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.  
Prerequisites: jr st; 3 cr philos or previous course in political theory or law studies recom.  
Course Rules: Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 400 Great Thinkers of the Ancient Period  
3 cr. Undergraduate/Graduate.  
An examination of, and engagement with, the thought of some of the major philosophers of the ancient period, including the Pre-Socratics, Plato, and Aristotle.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Fall 2012, Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 430G Great Thinkers of the Ancient Period  
3 cr. Undergraduate/Graduate.  
An examination of, and engagement with, the thought of some of the major philosophers of the ancient period, including the Pre-Socratics, Plato, and Aristotle.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Fall 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 431 History of Medieval Philosophy  
3 cr. Undergraduate/Graduate.  
Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Fall 2009, Spring 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 431G History of Medieval Philosophy  
3 cr. Undergraduate/Graduate.  
Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Fall 2009, Spring 2008.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 432 Great Thinkers of the Modern Period  
3 cr. Undergraduate/Graduate.  
An examination of the thought of representative philosophers of the 17th and 18th centuries.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 432G Great Thinkers of the Modern Period  
3 cr. Undergraduate/Graduate.  
An examination of the thought of representative philosophers of the 17th and 18th centuries.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Spring 2020.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 433 Nineteenth-Century Philosophers  
3 cr. Undergraduate/Graduate.  
The conflict of idealistic, materialistic, and irrationalist philosophies of the nineteenth century and their influence on its social, literary, and religious movements.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Fall 2012, Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/  

PHILOS 433G Nineteenth-Century Philosophers  
3 cr. Undergraduate/Graduate.  
The conflict of idealistic, materialistic, and irrationalist philosophies of the nineteenth century and their influence on its social, literary, and religious movements.  
Prerequisites: jr st & 3 cr in philos.  
Last Taught: Fall 2012, Fall 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 434 Survey of Contemporary Philosophy
3 cr. Undergraduate/Graduate.
Comparison of problems and solutions dealt with by currently active movements and philosophers, including Carnap, Croce, Dewey, Heidegger, Husserl, Moore, Russell, Sartre, and Wittgenstein.
Prerequisites: jr st; 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 434G Survey of Contemporary Philosophy
3 cr. Undergraduate/Graduate.
Comparison of problems and solutions dealt with by currently active movements and philosophers, including Carnap, Croce, Dewey, Heidegger, Husserl, Moore, Russell, Sartre, and Wittgenstein.
Prerequisites: jr st; 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 435 Existentialism
3 cr. Undergraduate/Graduate.
Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 435G Existentialism
3 cr. Undergraduate/Graduate.
Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 437 Phenomenology
3 cr. Undergraduate/Graduate.
Husserl's phenomenological method and its impact on recent continental philosophy, e.g. Heidegger, Sartre, Merleau-Ponty.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Spring 2012, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 437G Phenomenology
3 cr. Undergraduate/Graduate.
Husserl's phenomenological method and its impact on recent continental philosophy, e.g. Heidegger, Sartre, Merleau-Ponty.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Spring 2012, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 461 Islamic Philosophy and Mysticism
3 cr. Undergraduate/Graduate.
Problems central to Islamic theology, philosophy, and mysticism, and their relations to the teachings of Islam.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 461G Islamic Philosophy and Mysticism
3 cr. Undergraduate/Graduate.
Problems central to Islamic theology, philosophy, and mysticism, and their relations to the teachings of Islam.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 474 Contemporary Religious Thought:
3 cr. Undergraduate/Graduate.
Analysis of two or more contemporary religious thinkers (e.g., Buber, Heschel, Tillich, Barth, Bultmann, death-of-God theologians, Moltmann, Pannenberg, Rahner, Chardin). Difficulties and objections are discussed.
Prerequisites: jr st, 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 474G Contemporary Religious Thought:
3 cr. Undergraduate/Graduate.
Analysis of two or more contemporary religious thinkers (e.g., Buber, Heschel, Tillich, Barth, Bultmann, death-of-God theologians, Moltmann, Pannenberg, Rahner, Chardin). Difficulties and objections are discussed.
Prerequisites: jr st, 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 475 Special Topics in Indian Religious Thought:
3 cr. Undergraduate/Graduate.
Intensive study of selected Hindu and Indian Buddhist thinkers and schools of thought, e.g. the Vedanta of Sankara and Ramanuja, Mahayana thought, modern Vedanta, Gandhi.
Prerequisites: May be retaken w/chg in topic to 9 cr max. Preq: jr st; 3 cr in philos.
Last Taught: Fall 2005, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 475G Special Topics in Indian Religious Thought:
3 cr. Undergraduate/Graduate.
Intensive study of selected Hindu and Indian Buddhist thinkers and schools of thought, e.g. the Vedanta of Sankara and Ramanuja, Mahayana thought, modern Vedanta, Gandhi.
Prerequisites: May be retaken w/chg in topic to 9 cr max. Preq: jr st; 3 cr in philos.
Last Taught: Fall 2005, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 484 Internship in Philosophy, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of philosophy in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in philos; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Spring 2010, Fall 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 499G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: jr st, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 516 Language and Meaning
3 cr. Undergraduate/Graduate.
Philosophical issues of the semantics, syntax and pragmatics of language; relations between philosophy of language and metaphysics, epistemology and philosophy of science.
Prerequisites: jr st & Philos 101(P) or 432(P).
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 517 Special Problems in the Philosophy of Language and Linguistics:
3 cr. Undergraduate/Graduate.
In depth study of one or more topics concerning the nature of language; its acquisition, use and formal structures.
Prerequisites: jr st; 3 cr in philos.
Course Rules: May be retaken w/chg in topic & cons advisor & instr to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 519G Special Problems in Metaphysics and Epistemology:
3 cr. Undergraduate/Graduate.
Intensive study in such topics as perception, skepticism, induction, mathematical knowledge, universals, causality, substance, determinism, possibility.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 520 Philosophy of the Natural Sciences
3 cr. Undergraduate/Graduate.
The nature of scientific knowledge and belief in terms of the justification of scientific method, clarification of such concepts as cause, law, theory, probability, determinism, and teleology.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 520G Philosophy of the Natural Sciences
3 cr. Undergraduate/Graduate.
The nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, and teleology.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 521 Philosophy of the Social Sciences
3 cr. Undergraduate/Graduate.
The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 521G Philosophy of the Social Sciences
3 cr. Undergraduate/Graduate.
The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 522 Special Topics in the Philosophy of Science:
3 cr. Undergraduate/Graduate.
Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 522G Special Topics in the Philosophy of Science:
3 cr. Undergraduate/Graduate.
Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 532 Philosophical Problems:
3 cr. Undergraduate/Graduate.
Intensive study of one or two particular problems, such as determinism and freedom, ethical relativism, memory, or perception.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 532G Philosophical Problems:
3 cr. Undergraduate/Graduate.
Intensive study of one or two particular problems, such as determinism and freedom, ethical relativism, memory, or perception.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 535 Philosophical Topics in Feminist Theory:
3 cr. Undergraduate/Graduate.
Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised.
Prerequisites: jr st; a course in philos or women's stds.
Course Rules: May be retaken w/chg in topic to 6 cr max. Philos 535 & Wmns 535 are jointly offered; with same topic, they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 535G Philosophical Topics in Feminist Theory:
3 cr. Undergraduate/Graduate.
Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised.
Prerequisites: jr st; a course in philos or women's stds.
Course Rules: May be retaken w/chg in topic to 6 cr max. Philos 535 & Wmns 535 are jointly offered; with same topic, they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 542 Punishment and Responsibility
3 cr. Undergraduate/Graduate.
Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility.
Prerequisites: jr st & 3 cr in philos. Philos 241(R) or social science background recom.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 542G Punishment and Responsibility
3 cr. Undergraduate/Graduate.
Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility.
Prerequisites: jr st & 3 cr in philos. Philos 241(R) or social science background recom.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 551 Aristotle
3 cr. Undergraduate/Graduate.
Intensive study of one or more of Aristotle's major works or of themes and problems in Aristotle's thought. Particular attention to careful analysis of the texts.
Prerequisites: jr st; 3 cr philos; Philos 430(R).
Last Taught: Fall 2016, Spring 1995.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 551G Aristotle
3 cr. Undergraduate/Graduate.
Intensive study of one or more of Aristotle's major works or of themes and problems in Aristotle's thought. Particular attention to careful analysis of the texts.
Prerequisites: jr st; 3 cr philos; Philos 430(R).
Last Taught: Fall 2016, Spring 1995.
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 554 Special Topics in the History of Modern Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of a philosopher, movement, or historical problem in modern philosophy, e.g., Spinoza, British empiricists, Locke’s influence upon the Enlightenment, overthrow of Hegelian idealism.
Prerequisites: jr st, 3 cr philos; Philos 432(R), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 554G Special Topics in the History of Modern Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of a philosopher, movement, or historical problem in modern philosophy, e.g., Spinoza, British empiricists, Locke’s influence upon the Enlightenment, overthrow of Hegelian idealism.
Prerequisites: jr st, 3 cr philos; Philos 432(R), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 555 Recent Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of one or more philosophers or philosophical movements of the recent past.
Prerequisites: jr st, 3 cr philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 555G Recent Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of one or more philosophers or philosophical movements of the recent past.
Prerequisites: jr st, 3 cr philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 556 Special Topics in Ethics and Social and Political Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 562 Special Topics in Ethics and Social and Political Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 562G Special Topics in Ethics and Social and Political Philosophy:
3 cr. Undergraduate/Graduate.
Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 5681 Seminar in Advanced Topics:
3 cr. Undergraduate/Graduate.
Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required. Additional prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: sr st & 12 cr in philos at 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 681G Seminar in Advanced Topics:
3 cr. Undergraduate/Graduate.
Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required. Additional prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: sr st & 12 cr in philos at 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 569 Independent Work
2-3 cr. Undergraduate.
See Advanced Independent Work, undergrad bulletin.
Prerequisites: jr st; 3.0 in major or 2.0 overall GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Satisfies L&S research req. May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 699 Independent Work
2-3 cr. Undergraduate.
See Advanced Independent Work, undergrad bulletin.
Prerequisites: jr st; 3.0 in major or 2.0 overall GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Satisfies L&S research req. May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2020, Fall 2018, Spring 2014, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 712 Fundamentals of Formal Logic
3 cr. Graduate.
A study of basic aspects of contemporary formal logic.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 756 Seminar in Major Movements in Philosophical Thought:
3 cr. Graduate.
Intensive study of school or movement such as continental rationalism, empiricism; existentialism, phenomenology, etc. Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
PHILOS 758 Seminar in Major Philosophers:  
3 cr. Graduate.  
Intensive study of the thought or system, or an important part of the thought or system, of a major figure in philosophy. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st; cons instr.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Spring 2020, Fall 2018, Spring 2018, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 790 Advanced Topics in Philosophy:  
3 cr. Graduate.  
Discussion of special advanced topics in Philosophy.  
Prerequisites: grad st; add'l prereqs depending on topic.  
Course Rules: Retakable w/chg in topic to 9 cr max. Specific topics may be jointly-offered w/CompSci.  
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 820 The Teaching of Philosophy  
0 cr. Graduate.  
Discussion group with teaching assistants and their supervisor.  
Prerequisites: Required for all teaching assistants teaching a Philos course.  
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 888 Candidate for Degree  
0 cr. Graduate.  
Available for graduate students who must meet minimum credit load requirement.  
Prerequisites: graduate standing.  
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.  
Last Taught: Spring 2018, Summer 2017, Fall 2013, Summer 2010.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 903 Seminar in Epistemology:  
2-3 cr. Graduate.  
Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st, & cons instr.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 920 Seminar in the Philosophy of Science:  
2-3 cr. Graduate.  
Specific topics and any additional prerequisites announced in Timetable each time course is offered.  
Prerequisites: grad st & cons instr.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 941 Seminar in Ethics and Social and Political Philosophy:  
2-3 cr. Graduate.  
Specific topics and any additional prerequisites announced in Timetable each time course is offered.  
Prerequisites: grad st & cons instr.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 960 Seminar in Metaphysics:  
2-3 cr. Graduate.  
Specific topics and any additional prerequisites announced in Timetable each time course is offered.  
Prerequisites: grad st & cons instr.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Spring 2019, Fall 2017, Fall 2015, Fall 2014.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 990 Thesis  
3 cr. Graduate.  
Prerequisites: grad st in option B or in Language & Linguis concentration; cons major prof & committee.  
Course Rules: Retakable only once in option B. Not retakable by students in Language & Linguis concentration.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 999 Advanced Independent Study  
1-3 cr. Graduate.  
Prerequisites: grad st & cons dept chair.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 930 Pathobiology of Tissue Injury  
2-3 cr. Undergraduate/Graduate.  
Examination of tissue structure, biomechanics, injury, pathology and healing.  
Prerequisites: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.  
Course Rules: Counts as repeat of Kin 590 with similar title.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/

PHILOS 921 Pathobiology of Tissue Injury  
2-3 cr. Undergraduate/Graduate.  
Examination of tissue structure, biomechanics, injury, pathology and healing.  
Prerequisites: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.  
Course Rules: Counts as repeat of Kin 590 with similar title.  
Last Taught: Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/
PRPP 521G Pathoetiology of Tissue Injury
3 cr. Undergraduate/Graduate.
Examination of tissue structure, biomechanics, injury, pathology and healing.
Prerequisites: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590 with similar title.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 701 Introduction to Clinical Education and Professional Development
1 cr. Graduate.
Introduction to clinical education including professionalism, compliance, assessment, and interprofessional education.
Prerequisites: Good standing in M.S.A.T. or D.P.T. prog grad st & cons instr.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 702 Ethics in Healthcare
1 cr. Graduate.
Ethical theory and morality with application to healthcare professions.
Prerequisites: Good standing in M.S.A.T. or D.P.T. prog; grad. st & cons Instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 703 Foundations of Interprofessional Practice
1 cr. Graduate.
Introductory knowledge of interprofessional teamwork of health care professionals within the health care system.
Prerequisites: grad. st. in good standing
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 704 Professionalism and Leadership in Healthcare
1 cr. Graduate.
Advanced application of professionalism and leadership skills and behaviors with a focus on transition to independent practice.
Prerequisites: Good standing in M.S.A.T. or D.P.T. prog; grad st & cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 705 Foundations of Clinical Research
2-3 cr. Graduate.
Research methodology and design with an emphasis on clinical research and applications for determining best practice.
Prerequisites: good standing in DPT or MSAT prog; grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 708 Clinical Gait Analysis
3 cr. Graduate.
Instrumented and observational gait analysis techniques and discussion of the theoretical background of normal and abnormal gait with application to clinical examples
Prerequisites: grad st; good standing in DPT or MSAT prog; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 709 Research Practicum
2 cr. Graduate.
Development of strategies for evaluating and contributing to the evidence for physical therapy practice. Students will select and critically review evidence, develop, execute and present a case report to inform best practice.
Prerequisites: grad st; good standing in DPT program or cons instr.
Course Rules: Re-takeable up to 4 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 710 Prevention & Care of Emergent Medical Conditions in Athletic Training
4 cr. Graduate.
Introduction to athletic training knowledge and skills to prevent and manage medical emergencies.
Prerequisites: Good standing in MSAT program or grad st and consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 725 Gross Anatomical Kinesiology
3 cr. Graduate.
Anatomical analysis of human body function, including cadaver dissection.
Prerequisites: Good standing in MSOT, MSAT or MS Kinesiology prog; or grad st & cons instr.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 736 Physiological Regulation in Exertion & Disease
3 cr. Graduate.
Overview of the physiological basis of activity.
Prerequisites: grad st; good standing in DPT prog or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 737 Medical Physiology
3 cr. Graduate.
Physiological principles related to rehabilitation in physical therapy practice setting and interaction of physiological systems during normal activities and after injury or disease.
Prerequisites: grad st; good standing in DPT prog or cons instr.
Course Rules: Previously KIN 553.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 744 Healthcare Systems and Administration
3 cr. Graduate.
Practice of management skills in athletic training and physical therapy consistent with practice in the U.S. health care system and current practice environments.
Prerequisites: grad st; good standing in DPT or MSAT Prog; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
PRPP 754 Motor Behavior
3 cr. Graduate.
The theoretical and research evidence basis for normal and disordered movement via motor control, motor learning, and motor development literature.
Prerequisites: Good standing in DPT; or grad st & cons instr; & a grad-level Neuroanatomy course.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 758 Physical Agents
2 cr. Graduate.
The physiological basis, scientific rationale for, and clinical application of thermal, electrophysiology/ electrotherapy and electromagnetic physical agents.
Prerequisites: good standing in DPT or MSAT prog or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 759 Therapeutic Interventions for the Upper Extremity
2 cr. Graduate.
Knowledge, skill and science of injury prevention, rehabilitation, and performance in sport and physical activity; focused on the upper extremity along with advanced rehabilitation techniques.
Prerequisites: Good standing in MSAT prog; grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 764 Motor Behavior
3 cr. Graduate.
The theoretical and research evidence basis for normal and disordered movement via motor control, motor learning, and motor development literature.
Prerequisites: Good standing in MSAT program; grad st & consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 785 Clinical Education in Athletic Training: I
1 cr. Graduate.
Introductory field practicum experience with an emphasis on application of clinical skills and behaviors related to prevention and care of emergent medical conditions.
Prerequisites: Good standing in MSAT program.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 786 Clinical Education in Athletic Training: II
2 cr. Graduate.
Intermediate field practicum experience with an emphasis on application of clinical skills and behaviors related to examination and treatment of injury and pathology of the lower extremity.
Prerequisites: Good standing in MSAT program.
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 787 Clinical Education in Athletic Training: III
2 cr. Graduate.
Intermediate field practicum experience with an emphasis on application of clinical skills and behaviors related to examination and treatment of injury and pathology of the head, spine, and pelvis.
Prerequisites: Good standing in MSAT program.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 788 Clinical Education in Athletic Training: IV
3 cr. Graduate.
Advanced field practicum experience with an emphasis on application of clinical skills and behaviors related to examination and treatment of musculoskeletal injuries to the upper extremity.
Prerequisites: Good standing in MSAT program.
Current Offerings: https://catalog.uwm.edu/course-search/
PRPP 854 Professional Studies in Sport & Performance Psychology
1-3 cr. Graduate.
Foundations of successful and ethical professional practice in sport and performance psychology.
Prerequisites: Repeatable up to 6 credits. Graduate student in good standing; Grade of C or higher in Psychological Aspects of Human Movement (KIN 550); Grade of C or higher in Psychology of Personal Excellence (KIN 552); or consent of instructor.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 855 Mentored Fieldwork in Sport and Performance Psychology
1-3 cr. Graduate.
Mentored fieldwork experience with an emphasis on application of consulting skills and behaviors in sport and performance psychology settings.
Prerequisites: Graduate student in good standing; Grade of C or higher in Psychological Aspects of Human Movement (KIN 550); Grade of C or higher in Psychology of Personal Excellence (KIN 552); Grade of B or higher in PRPP 854; or consent of instructor.
Course Rules: Repeatable for 9 credits.
Current Offerings: https://catalog.uwm.edu/course-search/

PRPP 883 Capstone Clinical Education in Athletic Training
4-8 cr. Graduate.
Capstone field practicum experience with an emphasis on application of clinical skills and behaviors related to athletic training practice. Must be taken twice for a total of 12 cr.
Prerequisites: Good standing in MSAT program.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Physics (PHYSICS)

PHYSICS 100 Quantitative Preparation for Physics
2 cr. Undergraduate.
Introductory course in general physics designed for the student with little or no previous science training.
Prerequisites: Math Placement Level 10.
Course Rules: Fee for 3 cr assessed. Not open to students w/cr in Physics 110(ER), 120(ER), or 209(ER).
Last Taught: Fall 2019, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 107 Physics in Everyday Life
3 cr. Undergraduate.
Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings. For non-science majors.
Prerequisites: Math Placement Level 10 or consent of instructor.
Course Rules: May not be taken conc with or after having taken PHYSICS 120(ER) or PHYSICS 209(ER).
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 108 Laboratory for Physics in Everyday Life
1 cr. Undergraduate.
Experiments correlated with Physics 107.
Prerequisites: Physics 107(C).
General Education Requirements: NS+

PHYSICS 110 Physics for the Health Professions
4 cr. Undergraduate.
An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity. 3 hrs lec, 1 hr dis.
Prerequisites: H.S. general science; Math Placement Level 20.
Course Rules: May not be taken conc with or after having taken Physics 120(ER) or 209(ER).
General Education Requirements: NS
Last Taught: Fall 2019, Spring 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 120 General Physics I (Non-Calculus Treatment)
4 cr. Undergraduate.
Mechanics, wave motion, heat, and sound. 3 hrs lec, 2 hrs dis.
Prerequisites: Math Placement Level 30 or grade of C or better in Physics 100(P); HS trig or Physics 100 strongly recom.
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 121 General Physics Laboratory I (Non-Calculus Treatment)
1 cr. Undergraduate.
Experiments correlated with lecture material of Physics 120.
Prerequisites: Physics 120(C).
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.
General Education Requirements: NS+

PHYSICS 122 General Physics II (Non-Calculus Treatment)
4 cr. Undergraduate.
Electricity, optics, modern physics. 3 hrs lec, 2 hrs dis.
Prerequisites: Physics 120(NP).
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 123 General Physics Laboratory II (Non-Calculus Treatment)
1 cr. Undergraduate.
Experiments on topics related to the lecture material of Physics 122.
Prerequisites: Physics 122(C).
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.
General Education Requirements: NS+
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 124 General Physics Laboratory II (Non-Calculus Treatment)
1 cr. Undergraduate.
Experiments on topics related to the lecture material of Physics 124.
Prerequisites: Physics 124(C).
Course Rules: Any combination of Physics 124, 125, 210, 215, 220 carries 5 cr max toward graduation.
General Education Requirements: NS+

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PHYSICS 185 Basic Physics for Teachers
3 cr. Undergraduate.
Simple machines; work, energy and power; heating and cooling; static electricity and elementary electrical circuits; waves. 2 hrs lec; 2 hrs lab/dis.
Prerequisites: Math 175(P) & cons instr.
Course Rules: Not open for cr to students with cr in Physics courses numbered 110 or above.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 194 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 209 Physics I (Calculus Treatment)
4 cr. Undergraduate.
Selected topics in mechanics, wave motion, sound, and heat. 3 hrs lec, 2 hrs dis.
Prerequisites: Math 227(C), 228(C), or 232(C).
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 210 Physics II (Calculus Treatment)
4 cr. Undergraduate.
Continuation of Physics 209. Electromagnetic field theory and optics. 3 hrs lec, 2 hrs dis.
Prerequisites: grade of C- or better in Physics 209(NP); Math 229(C) or 233(C).
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 214 Lab Physics I (Calculus Treatment)
1 cr. Undergraduate.
Experiments in mechanics, wave motion, heat, and thermodynamics. 3 hrs lab.
Prerequisites: Physics 209(C).
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries 5 cr max toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 215 Lab Physics II (Calculus Treatment)
1 cr. Undergraduate.
Experiments in electricity, magnetism, and optics. 3 hrs lec.
Prerequisites: Physics 210(C).
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 219 Physics I: Calculus-Based, Studio Format
5 cr. Undergraduate.
Basic kinematics; Newton. Selected topics in mechanics, wave motion, sound, and heat. 8 hrs lec/lab.
Prerequisites: Math 227(C), 228(C), or 232(C).
Course Rules: Not open to students w/cr in Physics 209. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.
General Education Requirements: NS
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 220 Physics II: Calculus-Based, Studio Format
5 cr. Undergraduate.
Electromagnetic field theory and optics.
Prerequisites: grade of C or better in Physics 219(NP); Math 229(C) or 233(C).
Course Rules: Not open to students w/cr in Physics 210. Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 225 Physics and the Energy Problem
3 cr. Undergraduate.
Study of the laws of physics (particularly 1st and 2nd Laws of Thermodynamics) limit society’s options in dealing with scarcity of utilisable energy.
Prerequisites: H.S. algebra; Physics 107(P), 110(P), 120(P), or 209(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 270 Introduction to Computational Physics
3 cr. Undergraduate.
Use of computers to solve physics problems, including particle collisions, chaotic systems, planetary motion, and other topics related to relativity and quantum mechanics.
Prerequisites: Physics 209(P); Math 233(C).
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 289 Internship in Physics, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of physics in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in physics; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015, Summer 2011, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 305 Medical Physics
3 cr. Undergraduate.
Applications of physics to living systems & medical diagnostics. 3 hrs lect.
Prerequisites: grade of B+ or better in Physics 209(P). (Conc reg in Physics 210 strongly recom).
Course Rules: Primarily for premed students and others in the medical & biological sciences. Approved for Premed Stds Cert Prog.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 306 Introduction to Biophysics
3 cr. Undergraduate.
Physical foundations of cellular phenomena; physical laws of complex biological systems; imaging and instrumentation for biophysics. 3 hrs lect.
Prerequisites: Physics 122(P) or 210(P); Chemistry 104(P) or 105(P).
Course Rules: Approved for Premed Stds Cert Prog.
Last Taught: Spring 2020, Fall 2017, Fall 2015, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 309 Physics III: Modern Physics
3 cr. Undergraduate.
Elementary quantum physics, atomic and molecular physics, solid state and nuclear physics.
Prerequisites: jr st; B- or better in either PHYSICS 210(NP) or PHYSICS 220(NP); B- or better in MATH 233; MATH 234(C) or ELECENG 234(C); or consent of instructor.
Course Rules: Not open for cr to students who have cr in PHYSICS 341.
General Education Requirements: QLB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 317 Thermodynamics
3 cr. Undergraduate.
Classical thermodynamics, including entropy, the use of thermodynamic potentials, and applications to pressure-volume and other systems. Some basic statistical physics may be included.
Prerequisites: Physics 210(NP).
Last Taught: Spring 2020, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 325 Optics
4 cr. Undergraduate.
Geometric and physical optics, image formation, interference, diffraction, polarization, optical instruments, resolving power, coherence, lasers, holography. Selected experiments in optics. Studio-format course.
Prerequisites: Math 234(P) & Physics 309(C) or cons instr.
Course Rules: Counts as repeat of Physics 325 & 2 cr of Physics 410.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 351 Basics of Condensed Matter Physics
3 cr. Undergraduate.
Basic principles of condensed-matter physics. Crystals and amorphous materials; bonding; magnetic, thermal, and transport properties; band theory.
Prerequisites: Physics 309(P) or Chem 311(P).
Course Rules: Counts as repeat of Physics 499 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 370 Analytical and Numerical Methods in Physics
3 cr. Undergraduate.
Solutions to various physics problems. Applications (both analytical and numerical) from mechanics, electrodynamics, quantum mechanics, astrophysics, condensed matter physics.
Prerequisites: B- or better in either Physics 210(NP) or Physics 220(NP); B- or better in Math 233(P); Math 234(C) or ELECENG 234(C); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics concerning history and the nature of physics as an intellectual discipline.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. No cr toward major.
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 391 Undergraduate Research Participation
1-6 cr. Undergraduate.
Independent research for undergraduates on faculty-supervised research projects.
Prerequisites: Physics 309(P); 3.25 GPA in physics courses; cons instnr.
Course Rules: May be retaken w/chg in topic to 6 cr max; non-repeatable for change of grade.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 406 Introduction to Infrared Microspectroscopy
3 cr. Undergraduate.
Microscopy and spectroscopy methods for identification of chemical composition introducing interdisciplinary opportunities in fundamental and industrial applications.
Prerequisites: Bio Sci 150(P) & 152(P); or Physics 209(P) & 210(P); or Chem 102(P) & 104(P); or Chem 105(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 408 Experiments in Linear Electronics
3 cr. Undergraduate/Graduate.
Transistor and integrated circuit characteristics; electronic measurement and control.
Prerequisites: jr st, Physics 210(P).
Course Rules: No cr for students w/cr in ElecEng 330(R).
Last Taught: Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 408G Experiments in Linear Electronics
3 cr. Undergraduate/Graduate.
Transistor and integrated circuit characteristics; electronic measurement and control.
Prerequisites: jr st, Physics 210(P).
Course Rules: No cr for students w/cr in ElecEng 330(R).
Last Taught: Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 409 Modern Physics Laboratory
3 cr. Undergraduate.
Selected experiments in modern physics using advanced lab instrumentation.
Prerequisites: jr st; Physics 309(P) or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 411 Mechanics
4 cr. Undergraduate/Graduate.
Kinematics, vector analysis, conservation laws, oscillations, variational methods, chaos, Lagrangian and Hamiltonian mechanics.
Prerequisites: jr st; Physics 210(NP).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 411G Mechanics
4 cr. Undergraduate/Graduate.
Kinematics, vector analysis, conservation laws, oscillations, variational methods, chaos, Lagrangian and Hamiltonian mechanics.
Prerequisites: jr st; Physics 210(NP).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 412 Electricity and Magnetism I
3 cr. Undergraduate/Graduate.
Electrostatics, capacitance, boundary value problems, multipole expansion, dielectrics, magnetostatics, vector potential, magnetic properties of matter, motional emf, inductance, Maxwell’s equations in differential form.
Prerequisites: jr st; Physics 210(NP); a grade of B- or better in Math 321(P); or Math 321(P) and a grade of B- or better in Physics 370(P); or grad st.
Course Rules: Counts as repeat of 2 cr of Physics 421.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 412G Electricity and Magnetism I
3 cr. Undergraduate/Graduate.
Electrostatics, capacitance, boundary value problems, multipole expansion, dielectrics, magnetostatics, vector potential, magnetic properties of matter, motional emf, inductance, Maxwell’s equations in differential form.
Prerequisites: jr st; Physics 210(NP); a grade of B- or better in Math 321(P); or Math 321(P) and a grade of B- or better in Physics 370(P); or grad st.
Course Rules: Counts as repeat of 2 cr of Physics 421.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 413 Electricity and Magnetism II
3 cr. Undergraduate/Graduate.
Conservation laws in electrodynamics, Maxwell’s stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electromodynamics and relativity.
Prerequisites: jr st, C or better in PHYSICS 420(P); or grad st.
Course Rules: Counts as repeat of 2 cr of PHYSICS 421.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 413G Electricity and Magnetism II
3 cr. Undergraduate/Graduate.
Conservation laws in electrodynamics, Maxwell’s stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electromodynamics and relativity.
Prerequisites: jr st, C or better in PHYSICS 420(P); or grad st.
Course Rules: Counts as repeat of 2 cr of PHYSICS 421.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 414 Introduction to Quantum Mechanics I
4 cr. Undergraduate/Graduate.
Historical background and experimental basis, De Broglie waves, correspondence principle, uncertainty principle, Schrödinger equation; hydrogen atom, electron spin, Pauli Principle, applications of wave mechanics.
Prerequisites: jr st; Physics 309(NP); Math 321(C).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 441G Introduction to Quantum Mechanics I
4 cr. Undergraduate/Graduate.
Historical background and experimental basis, De Broglie waves, correspondence principle, uncertainty principle, Schroedinger equation; hydrogen atom, electron spin, Pauli Principle, applications of wave mechanics.
Prerequisites: jr st; Physics 309(NP); Math 321(C).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 442 Introduction to Quantum Mechanics II
3 cr. Undergraduate/Graduate.
Continuation of PHYSICS 441, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids.
Prerequisites: jr st; C or better in PHYSICS 441(NP); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 442G Introduction to Quantum Mechanics II
3 cr. Undergraduate/Graduate.
Continuation of PHYSICS 441, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids.
Prerequisites: jr st; C or better in PHYSICS 441(NP); or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 489 Internship in Physics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of physics in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Physics; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2014, Spring 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2014, Spring 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 498 Undergraduate Physics Seminar
1 cr. Undergraduate.
Talks by faculty, visitors, and students on topics of current interest in physics, astronomy, and other science and engineering fields.
Prerequisites: sr st; Physics 411(C), 421(C), or 441(C).
Course Rules: Cr/no cr only.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 501G Special Topics: Mathematical Models of Physical Problems I
3 cr. Undergraduate/Graduate.
Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions.
Prerequisites: jr st; Physics 210(P); Math 234(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 501 Special Topics: Mathematical Models of Physical Problems I
3 cr. Undergraduate/Graduate.
Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions.
Prerequisites: jr st; Physics 210(P); Math 234(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 502G Special Topics: Mathematical Models of Physical Problems II
3 cr. Undergraduate/Graduate.
More selected topics in mathematical models.
Prerequisites: jr st; Physics 210(P); Math 234(P). Physics 501(R).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 502 Special Topics: Mathematical Models of Physical Problems II
3 cr. Undergraduate/Graduate.
More selected topics in mathematical models.
Prerequisites: jr st; Physics 210(P); Math 234(P). Physics 501(R).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 515 Statistical Mechanics
3 cr. Undergraduate/Graduate.
Brief survey of thermodynamics; statistical mechanics; classical and quantum gases.
Prerequisites: jr st; Physics 317(P) & 441(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 599G Study Abroad:
1-12 cr. Undergraduate.
Prepared program course work; academic work in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 515G Statistical Mechanics
3 cr. Undergraduate/Graduate.
Brief survey of thermodynamics; statistical mechanics; classical and quantum gases.
Prerequisites: jr st, Physics 317(P) & 441(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 517 Special Relativity
3 cr. Undergraduate/Graduate.
Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism.
Prerequisites: jr st, Physics 411(R) & 421(R).
Last Taught: Fall 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 517G Special Relativity
3 cr. Undergraduate/Graduate.
Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism.
Prerequisites: jr st, Physics 411(R) & 421(R).
Last Taught: Fall 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 531 Principles of Quantum Mechanics I
3 cr. Undergraduate/Graduate.
Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum.
Prerequisites: jr st, Physics 441(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 531G Principles of Quantum Mechanics I
3 cr. Undergraduate/Graduate.
Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum.
Prerequisites: jr st, Physics 441(P).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 532 Principles of Quantum Mechanics II
3 cr. Undergraduate/Graduate.
Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation.
Prerequisites: jr st, Physics 531(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 532G Principles of Quantum Mechanics II
3 cr. Undergraduate/Graduate.
Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation.
Prerequisites: jr st, Physics 531(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 541 Elementary Particles
3 cr. Undergraduate/Graduate.
Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson.
Prerequisites: jr st, Physics 441(P).
Last Taught: Fall 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 541G Elementary Particles
3 cr. Undergraduate/Graduate.
Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson.
Prerequisites: jr st, Physics 441(P).
Last Taught: Fall 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 551 Introduction to Solid State Physics I
3 cr. Undergraduate/Graduate.
Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface.
Prerequisites: jr st, Physics 441(P) or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 551G Introduction to Solid State Physics I
3 cr. Undergraduate/Graduate.
Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface.
Prerequisites: jr st, Physics 441(P) or cons instr.
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 575G Vacuum Science and Technology
3 cr. Undergraduate/Graduate.
Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectographs, chemical reactions at surfaces, outgassing.
Prerequisites: jr st, Physics 441(P).
Last Taught: Spring 2011, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 575 Vacuum Science and Technology
3 cr. Undergraduate/Graduate.
Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectographs, chemical reactions at surfaces, outgassing.
Prerequisites: jr st, Physics 441(P).
Last Taught: Spring 2011, Fall 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 606 Molecular, Cellular, and System Biophysics
3 cr. Undergraduate.
Prerequisites: jr st, Physics 210(P), & writ cons instr; or grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 610 The Art and Science of Teaching Physics
1 cr. Undergraduate/Graduate.
Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.
Prerequisites: appt as undergrad TA or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 610G The Art and Science of Teaching Physics
1 cr. Undergraduate/Graduate.
Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.
Prerequisites: appt as undergrad TA or grad st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 651 Introduction to Solid State Physics II
3 cr. Undergraduate/Graduate.
Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.
Prerequisites: jr st, Physics 551(P).
Last Taught: Spring 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 651G Introduction to Solid State Physics II
3 cr. Undergraduate/Graduate.
Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.
Prerequisites: jr st, Physics 551(P).
Last Taught: Spring 2019, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 670 Electron Microscopy Laboratory
3 cr. Undergraduate/Graduate.
Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.
Prerequisites: sr st; Physics 551(P) or cons instr.
Last Taught: Fall 2012, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 670G Electron Microscopy Laboratory
3 cr. Undergraduate/Graduate.
Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.
Prerequisites: sr st; Physics 551(P) or cons instr.
Last Taught: Fall 2012, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 698 Research Experience for Teachers
1-6 cr. Undergraduate/Graduate.
Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.
Prerequisites: sr st; current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max.
Last Taught: Summer 2010, Summer 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 698G Research Experience for Teachers
1-6 cr. Undergraduate/Graduate.
Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.
Prerequisites: sr st; current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max.
Last Taught: Summer 2010, Summer 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Independent reading or research under supervision of faculty member. Study proposal required. For further information, consult dept chair or undergrad advising coord.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Summer 2018, Fall 2016, Summer 2015, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 705 Molecular, Cellular, and System Biophysics
3 cr. Graduate.
Prerequisites: grad st
Last Taught: Spring 2020, Fall 2017, Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 706 Biophotonics
3 cr. Graduate.
Biophotonics and bioimaging; overview of application of optics in biology and medicine based on the understanding of basic optics, spectroscopy, and imaging theory.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 707 Structural Molecular Biophysics
3 cr. Graduate.
Methods in molecular biophysics.
Prerequisites: grad st; major in science-based discipline & Physics 210(P), or writ cons instr.
Last Taught: Fall 2019, Fall 2016, Spring 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 711 Theoretical Physics-Dynamics
3 cr. Graduate.
Lagrange equations, canonical formulation, principle of least action, normal coordinates, rigid bodies, special relativity, mathematical methods.
Prerequisites: grad st; Math 321(C) or 322(C); or 701(C) or 702(C).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 716 Advanced Topics in Statistical Physics
3 cr. Graduate.
Systems of interacting particles; critical phenomena; transport theory, irreversible processes and fluctuations; model calculations for interacting systems of particles.
Prerequisites: grad st; Physics 515(P), 532(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 717 Gravitation
3 cr. Graduate.
Prerequisites: grad st; Physics 517(P).
Last Taught: Spring 2018, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 718 White Dwarfs, Neutron Stars, and Black Holes
3 cr. Graduate.
Physics of compact objects; neutron and relativistic stellar structure and stability; pulsars, x-ray sources; accretion disks; gravitational collapse; stellar-size and supermassive black holes; quasars.
Prerequisites: grad st; Physics 717(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 720 Electrodynamics I
3 cr. Graduate.
Maxwell's equations; Helmholtz theorem; scalar and vector potentials; boundary value problems; plane wave solutions.
Prerequisites: grad st; Physics 711(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 721 Electrodynamics II
3 cr. Graduate.
Wave guides, radiation by charges; radiation reaction; radiation scattering, damping and dispersion; covariant formulation of electrodynamics.
Prerequisites: grad st; Physics 720(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 731 Quantum Mechanics
3 cr. Graduate.
Mathematical formalism of quantum mechanics. Observables and transformation theory, scattering perturbation, other approximation methods.
Prerequisites: grad st; Physics 532(P) & 711(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 735 High Energy Physics
3 cr. Graduate.
Special relativity applied to high energy collisions, experimental techniques, ionization and radiation at high energy, weak interactions theory, II-meson and strange particle interactions, ultra-high energy phenomena.
Prerequisites: grad st & Physics 732(P).
Last Taught: Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 751 Solid State Theory I
3 cr. Graduate.
Dynamics of electrons in a magnetic field: energy bands, cyclotron resonance, impurity states, optical absorption and excitons in semiconductor crystals; electrodynamics of metals; green’s functions.
Prerequisites: grad st & Physics 532(P) & 751(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 752 Solid State Theory II
3 cr. Graduate.
Dynamics of electrons in a magnetic field: energy bands, cyclotron resonance, impurity states, optical absorption and excitons in semiconductor crystals; electrodynamics of metals; green’s functions.
Prerequisites: grad st & Physics 532(P) & 751(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 770 Electron Microscopy
3 cr. Graduate.
Prerequisites: grad st; Physics 551(P) or cons instr.
Last Taught: Fall 2011, Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 775 Surface Physics I
3 cr. Graduate.
Survey of experimental techniques in surface physics research.
Prerequisites: grad st; Physics 515(P) & 575(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 781 Medical Radiation Physics
3 cr. Graduate.
Physical principles of the generation, interaction, detection, and measurement of radiation in medical applications; basics of radiation protection.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 782 Physics of Medical Imaging
3 cr. Graduate.
Basic theoretical knowledge of the physics of diagnostic radiology using x-rays, magnetic resonance, nuclear medicine, and ultrasounds.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 784 Radiotherapy Physics
3 cr. Graduate.
Radiation physics for work as a hospital physicist, including accelerators
for radiation therapy, quality characteristics of treatment beams,
treatment planning, treatment techniques, quality assurance, oncology.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 801 Special Topics in Theoretical Physics:
2-3 cr. Graduate.
Discussion of recent research or advanced special topics.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 807 Group Theory and Its Applications to Physics
3 cr. Graduate.
Representations of discrete and continuous groups, including rotation
groups, unitary groups and crystal point and space groups. Symmetries of
elementary particles. Molecular orbitals, energy bands.
Prerequisites: grad st, Physics 532(P).
Course Rules: Counts as repeat of Math 807.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 811 Nonlinear Dynamics and Chaos
3 cr. Graduate.
Iteration of maps, numerical integration, strange attractors in dissipative
systems, fractal dimensions, multifractals, entropy. Chaos in hamiltonian
systems, perturbation theory, kam theorem. Quantum chaos.
Prerequisites: grad st, Physics 711(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 817 Gravitation and Cosmology II
3 cr. Graduate.
Topics depend on student interest. Initial value problem. Spinors and
3HE-4HE mixtures.
Prerequisites: grad st; Physics 717(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 819 Advanced Topics in Gravitational Physics
3 cr. Graduate.
Topics depend on student interest. Initial value problem. Spinors and
positive mass. Singularity theorems. Modern kaluza-klein theory.
Approaches to quantum gravity.
Prerequisites: grad st, Physics 717(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 822 Nonlinear Dynamics and Chaos
3 cr. Graduate.
Discussion of special topics of interest to research students in theoretical
physics.Retakable w/chg in topic to 9 cr max. Prereq: grad st & cons instr.
Last Taught: Fall 2017, Fall 2014, Spring 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 823 Statistical Mechanics
3 cr. Graduate.
Mathematical formalism, statistical mechanics of classical and quantum
systems. Properties of type I and type II superconductors, bcs and ginzburg-landau
theory, vortices, and flux dynamics.
Prerequisites: grad st; Physics 532(P) & 651(P).
Last Taught: Spring 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 829 Seminar in Applied Mathematics:
1-3 cr. Graduate.
Lectures by staff and visitors on research in various areas of mathematics.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 851 Quantum Field Theory I
3 cr. Graduate.
Group theory, canonical and path integral quantization, feynman rules,
quantum electrodynamics, renormalization, quantum chromodynamics,
electroweak theory, spontaneous symmetry breaking.
Prerequisites: grad st; Physics 732(P).
Last Taught: Fall 2017, Fall 2013, Spring 2000, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 852 Superconductivity
3 cr. Graduate.
Properties of type I and type II superconductors, bcs and ginzburg-landau
theory, vortices, and flux dynamics.
Prerequisites: grad st; Physics 532(P) & 651(P).
Last Taught: Spring 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 853 Superfluidity
3 cr. Graduate.
Bose-Einstein condensation. Properties of superfluid 4HE, 3HE and
3HE-4HE mixtures.
Prerequisites: grad st; Physics 551(P) & 651(P) or physics 515(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 854 Electron Phonon Interaction
3 cr. Graduate.
Wave propagation in metals. Interaction of electrons with the lattice in
normal metals, superconductors, and magnetic materials.
Prerequisites: grad st; Physics 532(P) & 651(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 903 Research Practicum: Medical Physics
3 cr. Graduate.
Training with clinical medical imaging and therapy equipment, and
dosimetry instrumentation.
Prerequisites: grad st; Physics 717(P).
Last Taught: Spring 2019, Fall 2018, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 904 Seminar in Surface Studies:
1-3 cr. Graduate.
Discussion of special topics of interest to research students in theoretical
physics.Retakable w/chg in topic to 9 cr max. Prereq: grad st & cons instr.
Last Taught: Spring 2019, Fall 2018, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 906 Seminar in Biophysics:
1-3 cr. Graduate.
Special topics in experimental biophysics. Retakable with change in topic
to 9 cr max.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
PHYSICS 990 Research
1-9 cr. Graduate.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PHYSICS 999 Independent Reading
1-3 cr. Graduate.
For the benefit of graduate students unable to secure needed content in regular courses.
Prerequisites: grad st, cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

Polish (POLISH)

POLISH 101 First-Semester Polish
4 cr. Undergraduate.
A systematic introduction to the Polish language.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 102 Second-Semester Polish
4 cr. Undergraduate.
Continuation of POLISH 101.
Prerequisites: POLISH 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 197 Study Abroad
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 199 Independent Study
1-4 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2015, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 201 Third-Semester Polish
3 cr. Undergraduate.
Review of grammar and readings.
Prerequisites: Polish 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 202 Fourth-Semester Polish
3 cr. Undergraduate.
Continuation of Polish 201.
Prerequisites: Polish 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: May be used to repeat Geog 213, English 213, French 213, German 213, Italian 213, Linguistics 213, Russian 213, & Spanish 213.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 236 Polish Culture in its Historical Setting
3 cr. Undergraduate.
Major achievements of Polish culture during ten centuries of existence. Art, architecture, literature, music, and film viewed against crucial historical developments that formed Poland and its people.
Prerequisites: none.
Course Rules: May be used to repeat Geog 236.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 260 Survey of Polish Literature-in-Translation: 1863 to the Present
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: May be used to repeat Geog 260.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 289 Internship in Polish, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Polish in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Polish; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
POLISH 290 Summer Study in Poland:
2-6 cr. Undergraduate.
Studies in Polish language, culture and civilization at a Polish university; lectures and field trips; credit level determined by length of program.
Prerequisites: cons instr.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 397G Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 489 Internship in Polish, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Polish in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Polish; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

POLISH 497 Internship in Polish, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Polish in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
Political Science (POL SCI)

POL SCI 103 Introduction to Political Science
3 cr. Undergraduate.
An introduction to the systematic study of politics, including voting, parties, interest groups, executives, legislatures, courts, and political ideologies.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 104 Introduction to American Government and Politics
3 cr. Undergraduate.
How the American political system works, with emphasis on the Constitution, elections, political parties, interest groups, Congress, the presidency, the courts, and national policy making.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 105 State Politics
3 cr. Undergraduate.
Processes and functions of state governments and their relations with the national government and local governments; special emphasis on Wisconsin politics.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 106 Politics of the World's Nations
3 cr. Undergraduate.
Introduction to political issues facing the governments of industrialized and developing nations, democratic and authoritarian, considering the similarities and differences between these nations and America.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 110 Sex and Power
3 cr. Undergraduate.
Study of gender, sex, and sexuality as determined by law, power, and politics.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Spring 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 150 Multicultural America: Minority Voting Rights and Representation
3 cr. Undergraduate.
An introduction to minority voting rights, the Voting Rights Acts, and minority representation.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service learning component.
General Education Requirements: CD
Last Taught: Fall 2018, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 175 Introduction to International Relations
3 cr. Undergraduate.
Introduction to international relations, including the major subfields. Essential characteristics of the international system and the foreign policy objectives of states are discussed to give the beginning student a clearer view of world politics.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 203 Introduction to Political Science Research
3 cr. Undergraduate.
An overview of quantitative political science research. The role of theory, research design, and measurement.
Prerequisites: one pol sci course.
Course Rules: Research methods course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 210 American Public Policy
3 cr. Undergraduate.
Introduction to substantive policy issues and forces which influence their progress. Emphasis upon major values within political conflicts and the gap between policy goals and program implementation.
Prerequisites: none.
Course Rules: American politics course.
General Education Requirements: SS
Last Taught: Spring 2019, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 213 Urban Government and Politics
3 cr. Undergraduate.
The management, politics, and problems of city government.
Prerequisites: none.
Course Rules: American politics course.
General Education Requirements: SS
Last Taught: Fall 2019, Spring 2018, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 215 Ethnicity, Religion and Race in American Politics
3 cr. Undergraduate.
Nationality, racial and religion-based groups in American domestic and foreign policy-making; significance of cultural pluralism as a factor in the American political experience.
Prerequisites: none.
Course Rules: American politics course.
General Education Requirements: CD, SS
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 216 Environmental Politics
3 cr. Undergraduate.
Introductory course on the politics of environmental decisionmaking. Topics include the environmental movement, capitalism and the environment, climate change, and policymaking for environmental protection.
Prerequisites: none.
Course Rules: None.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 243 Public Administration
3 cr. Undergraduate.
The means used to implement political values with emphasis on problems of administration in modern government.
Prerequisites: none.
Course Rules: Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Last Taught: Fall 2014, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 250 Law and Society
3 cr. Undergraduate.
The law and the operation of the legal system as they relate to contemporary social issues.
Prerequisites: none.
Course Rules: American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 255 Great Issues of Politics
3 cr. Undergraduate.
Major problems in political thought, such as war and peace, justice and power, liberty and authority, identity and alienation, and stability and change.
Prerequisites: none.
Course Rules: Political theory course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 281 Classics of Political Theory
3 cr. Undergraduate.
Power, authority, liberty, justice, law, and other basic ideas of politics and government as treated in the classic works of political thought.
Prerequisites: soph st.
Course Rules: Political theory course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 284 Introduction to ULEAP
1-3 cr. Undergraduate.
Undergraduate Laboratory for Empirical Analysis of Politics (ULEAP). Hands-on research lab for recurring ULEAP projects. Students assist faculty with research projects, develop quantitative research skills.
Prerequisites: cons instr.
Course Rules: Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max.
Last Taught: Spring 2012, Fall 2011, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: None.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs & srs.
Last Taught: Spring 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: None.
Course Rules: May be retaken w/topic chg.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: None; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 300 Western European Politics
3 cr. Undergraduate.
Survey of government and politics in Western Europe; comparative perspectives on states, citizens, and public policies; current challenges.
Prerequisites: jr st or Pol Sci 106.
Course Rules: Comparative politics course.
Last Taught: Spring 2017, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 301 British Politics
3 cr. Undergraduate/Graduate.
Political process in Great Britain in the context of contemporary national setting; emphasis on party system and constitutional order.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 301G British Politics
3 cr. Undergraduate/Graduate.
Political process in Great Britain in the context of contemporary national setting; emphasis on party system and constitutional order.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 302 Politics of Eastern Europe
3 cr. Undergraduate/Graduate.
Evolution of modern nation-state systems in Eastern Europe; interactions among nationalism, communism, and democracy in the countries of the region since 1945.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 302G Politics of Eastern Europe
3 cr. Undergraduate/Graduate.
Evolution of modern nation-state systems in Eastern Europe; interactions among nationalism, communism, and democracy in the countries of the region since 1945.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 310 Russian and Post-Soviet Politics
3 cr. Undergraduate/Graduate.
Domestic politics of Russia and the other states of the former Soviet Union; special emphasis is placed on transitions to and from authoritarianism, political institutions, and market reforms.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 310G Russian and Post-Soviet Politics
3 cr. Undergraduate/Graduate.
Domestic politics of Russia and the other states of the former Soviet Union; special emphasis is placed on transitions to and from authoritarianism, political institutions, and market reforms.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 312 The Politics of Authoritarian Regimes
3 cr. Undergraduate/Graduate.
Comparison of modern authoritarian regimes. Emphasis is on their domestic politics and methods of rule.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 312G The Politics of Authoritarian Regimes
3 cr. Undergraduate/Graduate.
Comparison of modern authoritarian regimes. Emphasis is on their domestic politics and methods of rule.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 314 Chinese Politics and Foreign Policy
3 cr. Undergraduate.
Historical background. Communism and its reform; leadership and political change; economic policy; corruption; human rights; population; environment; Tibet and Xinjiang; foreign policy.
Prerequisites: jr st or one pol sci course.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 316 International Law
3 cr. Undergraduate/Graduate.
Rules and principles of behavior which govern nations in their relations with one another, as illustrated in texts and cases.
Prerequisites: jr st.
Course Rules: International politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 316G International Law
3 cr. Undergraduate/Graduate.
Rules and principles of behavior which govern nations in their relations with one another, as illustrated in texts and cases.
Prerequisites: jr st.
Course Rules: International politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 320 Politics of Developing Countries
3 cr. Undergraduate/Graduate.
Comparative analysis of political problems confronting developing countries.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 320G Politics of Developing Countries
3 cr. Undergraduate/Graduate.
Comparative analysis of political problems confronting developing countries.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 321 Politics of Revolution in Developing Nations
3 cr. Undergraduate/Graduate.
The theory and description of political revolutions and rapid political change in the twentieth century.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 321G Politics of Revolution in Developing Nations
3 cr. Undergraduate/Graduate.
The theory and description of political revolutions and rapid political change in the twentieth century.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/
**Current Offerings:**

**Course Rules:** Comparative politics course.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 326G Latin American Politics**

3 cr. Undergraduate/Graduate.

Analysis of contemporary governments in Latin America, with particular emphasis on the social way of life, the politics of economic organization and government in action.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 326 Brazilian Politics and Society**

3 cr. Undergraduate.

Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2015, Spring 2012.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 328 The Arab-Israeli Conflict**

3 cr. Undergraduate/Graduate.

Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 328G The Arab-Israeli Conflict**

3 cr. Undergraduate/Graduate.

Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 329 African Politics**

3 cr. Undergraduate/Graduate.

The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building.

**Prerequisites:** jr st; Pol Sci 106(R).

**Course Rules:** Comparative politics course.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 329G African Politics**

3 cr. Undergraduate/Graduate.

The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building.

**Prerequisites:** jr st; Pol Sci 106(R).

**Course Rules:** Comparative politics course.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 330 The Politics of International Economic Relations**

3 cr. Undergraduate/Graduate.


**Prerequisites:** jr st.

**Course Rules:** International politics course.

**Last Taught:** Fall 2019, Spring 2018.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 330G The Politics of International Economic Relations**

3 cr. Undergraduate/Graduate.


**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Fall 2019, Spring 2018.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 333 Seminar in Comparative Politics:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of comparative politics.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. Enrollment limited to 15 students. Comparative politics course.

**Last Taught:** Spring 2008, Fall 2003.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 333G Seminar in Comparative Politics:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of comparative politics.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. Enrollment limited to 15 students. Comparative politics course.

**Last Taught:** Spring 2008, Fall 2003.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 334 German Politics and the New Europe**

3 cr. Undergraduate/Graduate.

Development of the two German republics after 1945; domestic and European issues of a unified Germany.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Spring 2013, Spring 2009.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**POL SCI 334G German Politics and the New Europe**

3 cr. Undergraduate/Graduate.

Development of the two German republics after 1945; domestic and European issues of a unified Germany.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Spring 2013, Spring 2009.

**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
POL SCI 335 Comparative Political Systems
3 cr. Undergraduate/Graduate.
Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 335G Comparative Political Systems
3 cr. Undergraduate/Graduate.
Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances.
Prerequisites: jr st or one pol sci course.
Course Rules: International politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 337 International Organization and the United Nations
3 cr. Undergraduate.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Summer 2020, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 338 Seminar in International Relations:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Comparative politics course.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 338G Seminar in International Relations:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Comparative politics course.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 339 European Integration
3 cr. Undergraduate/Graduate.
Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit.
Prerequisites: jr st.
Course Rules: Comparative or international politics course.
Last Taught: Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 339G European Integration
3 cr. Undergraduate/Graduate.
Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit.
Prerequisites: jr st.
Course Rules: Comparative or international politics course.
Last Taught: Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 340 Politics of Nuclear Weapons
3 cr. Undergraduate/Graduate.
Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics.
Prerequisites: jr st; course in pol sci or related field recom.
Course Rules: International politics course.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 340G Politics of Nuclear Weapons
3 cr. Undergraduate/Graduate.
Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics.
Prerequisites: jr st; course in pol sci or related field recom.
Course Rules: International politics course.
Last Taught: Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 341 Politics and Markets in Pacific-Rim Countries:
3 cr. Undergraduate/Graduate.
Introduction to the political-economic relationships among Pacific-Rim countries.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Comparative politics course.
Last Taught: Fall 2013, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 341G Politics and Markets in Pacific-Rim Countries:
3 cr. Undergraduate/Graduate.
Introduction to the political-economic relationships among Pacific-Rim countries.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Comparative politics course.
Last Taught: Fall 2013, Fall 1994.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 343 Asian International Relations
3 cr. Undergraduate.
Analysis of recent relations of the major powers in East, Southeast, and South Asia, especially the problems of the smaller states and the role of the United States.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Spring 2020, Fall 2017, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 346 U.S.-Latin American Relations
3 cr. Undergraduate.
Historic and contemporary inter-American relations, including issues such as U.S.-Cuban relations, drug trafficking, trade integration, international finance, and migration.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Fall 2014, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 355 The Politics of Economic Inequality
3 cr. Undergraduate.
The causes and political consequences of economic inequality.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 359 Problems of American Foreign Policy
3 cr. Undergraduate/Graduate.
Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 359G Problems of American Foreign Policy
3 cr. Undergraduate/Graduate.
Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 361 History of International Political Thought
3 cr. Undergraduate/Graduate.
History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law.
Prerequisites: jr st.
Course Rules: Political theory or international politics course.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 361G History of International Political Thought
3 cr. Undergraduate/Graduate.
History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law.
Prerequisites: jr st.
Course Rules: Political theory or international politics course.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 365 Theories and Methods in International Politics
3 cr. Undergraduate/Graduate.
Empirical, theoretical, and quantitative analyses of international relations.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Spring 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 365G Theories and Methods in International Politics
3 cr. Undergraduate/Graduate.
Empirical, theoretical, and quantitative analyses of international relations.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Spring 2018, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 366 Gender and Politics in Developing Nations
3 cr. Undergraduate/Graduate.
Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies.
Prerequisites: jr st.
Course Rules: Counts as a repeat of Pol Sci 333 w/same subtitle. Enrollment limited to 15 students. Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 366G Gender and Politics in Developing Nations
3 cr. Undergraduate/Graduate.
Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies.
Prerequisites: jr st.
Course Rules: Counts as a repeat of Pol Sci 333 w/same subtitle. Enrollment limited to 15 students. Comparative politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 370 International Conflict
3 cr. Undergraduate/Graduate.
Theoretical and quantitative studies of international conflict and war. Includes individual, national, and systemic approaches.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 370G International Conflict
3 cr. Undergraduate/Graduate.
Theoretical and quantitative studies of international conflict and war. Includes individual, national, and systemic approaches.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 371 Nationalism and Ethnic Conflict
3 cr. Undergraduate.
Origins of nations. Nationalism and the decline of empires. Origins and strategies of ethnic wars. How ethnic wars end. International intervention. Case studies, such as Arab-Israeli and India-Pakistan conflicts. Comparative or international politics course. Prereq: jr st or one pol sci course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 372 Poverty and Politics
3 cr. Undergraduate.
Causes and political consequences of poverty and social inequality worldwide.
Prerequisites: jr st.
Course Rules: Counts as repeat of Pol Sci 499 w/same topic. May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2016, Summer 2016, Summer 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 374 Health, Wealth, and Democracy
3 cr. Undergraduate.
The relationship between the democracies and wealth, and health care outcomes.
Prerequisites: The relationship between the democracies and wealth, and health care outcomes.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 377 Elections in the Modern World
3 cr. Undergraduate.
Role of elections in contemporary political regimes; representation, accountability, electoral institutions, elections in new democracies, and electoral authoritarian regimes.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 379 Morality, Conflict and War
3 cr. Undergraduate.
Examines the conditions that make for war and peace in world politics, and considers relevant moral and ethical arguments about war.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 380 Honors Seminar:
3 cr. Undergraduate.
Selective topics in the study of politics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. Political theory course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 381 The Development of Western Political Thought
3 cr. Undergraduate/Graduate.
Political theory from the Greek era to the present.
Prerequisites: jr st; grade of C or better in English 102(P) or score level 4 on EPT.
Course Rules: Political theory course.
Last Taught: Fall 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 381G The Development of Western Political Thought
3 cr. Undergraduate/Graduate.
Political theory from the Greek era to the present.
Prerequisites: jr st; grade of C or better in English 102(P) or score level 4 on EPT.
Course Rules: Political theory course.
Last Taught: Fall 2015, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 382 Modern Political Thought
3 cr. Undergraduate/Graduate.
Liberal democracy, traditional conservatisim, fascism, communism and socialism, with emphasis on the development and problems of democracy.
Prerequisites: jr st.
Course Rules: Political theory course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 382G Modern Political Thought
3 cr. Undergraduate/Graduate.
Liberal democracy, traditional conservatisim, fascism, communism and socialism, with emphasis on the development and problems of democracy.
Prerequisites: jr st.
Course Rules: Political theory course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 384 The Philosophy of Law
3 cr. Undergraduate/Graduate.
The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.
Prerequisites: jr st; 3 cr in philos or previous course in political theory or law studies recom.
Course Rules: Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 384G The Philosophy of Law
3 cr. Undergraduate/Graduate.
The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.
Prerequisites: jr st; 3 cr in philos or previous course in political theory or law studies recom.
Course Rules: Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 385 American Political Thought
3 cr. Undergraduate/Graduate.
Survey of main currcents of American political thought from colonial times to the present.
Prerequisites: jr st.
Course Rules: Political theory course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 385G American Political Thought
3 cr. Undergraduate/Graduate.
Survey of main currcents of American political thought from colonial times to the present.
Prerequisites: jr st.
Course Rules: Political theory course.
POL SCI 386 Contemporary Political Theory
3 cr. Undergraduate/Graduate.
Survey of current work in different branches of political theory, including formal, analytical, and critical theory.
Prerequisites: jr st.
Course Rules: Political theory course.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 386G Contemporary Political Theory
3 cr. Undergraduate/Graduate.
Survey of current work in different branches of political theory, including formal, analytical, and critical theory.
Prerequisites: jr st.
Course Rules: Political theory course.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 387 Topics in American Politics:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of American politics.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 387G Topics in American Politics:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of American politics.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 388 Latino Politics
3 cr. Undergraduate.
Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation.
Prerequisites: jr st.
Course Rules: Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 389 Politics and Philosophy:
3 cr. Undergraduate/Graduate.
Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory.
Prerequisites: jr st; one course in political theory.
Course Rules: Political theory course. May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 389G Politics and Philosophy:
3 cr. Undergraduate/Graduate.
Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory.
Prerequisites: jr st; one course in political theory.
Course Rules: Political theory course. May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 390 Political Data Analysis
3 cr. Undergraduate/Graduate.
Research design, measurement, and techniques of political data analysis.
Prerequisites: jr st; satisfaction of GER Quantitative Literacy Part A req.
Course Rules: Research methods course.
General Education Requirements: QLB
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 390G Political Data Analysis
3 cr. Undergraduate/Graduate.
Research design, measurement, and techniques of political data analysis.
Prerequisites: jr st; satisfaction of GER Quantitative Literacy Part A req.
Course Rules: Research methods course.
General Education Requirements: QLB
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 391 Current Crises and Events in International Relations
3 cr. Undergraduate.
Examines several current crises or challenging international events--defined as unstable, pressing international situations in which significant change appears imminent.
Prerequisites: jr st.
Course Rules: Research methods course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 392 Survey Research
3 cr. Undergraduate/Graduate.
Theory and practice of survey techniques. Planning, design, sampling, types of data, questionnaire construction, interviewing, field operation, and coding examples in a variety of fields.
Prerequisites: jr st.
Course Rules: Research methods course.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 392G Survey Research
3 cr. Undergraduate/Graduate.
Theory and practice of survey techniques. Planning, design, sampling, types of data, questionnaire construction, interviewing, field operation, and coding examples in a variety of fields.
Prerequisites: jr st.
Course Rules: Research methods course.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 398 Cyber-Politics:
3 cr. Undergraduate.
Study of politics using internet sources, especially the Worldwide Web.
Prerequisites: jr st; one social sci course.
Course Rules: May not be retaken for degree cr.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 405 State Government:  
3 cr. Undergraduate/Graduate.  
Selected topics in state government and politics with special emphasis on Wisconsin.  
**Prerequisites:** jr st.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.  
**Last Taught:** Fall 2013, Spring 2013.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 405G State Government:  
3 cr. Undergraduate/Graduate.  
Selected topics in state government and politics with special emphasis on Wisconsin.  
**Prerequisites:** jr st.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.  
**Last Taught:** Fall 2013, Spring 2013.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 408 The American Presidency  
3 cr. Undergraduate/Graduate.  
Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Summer 2019, Summer 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 408G The American Presidency  
3 cr. Undergraduate/Graduate.  
Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Summer 2019, Summer 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 411 Constitutional Law: Government Powers and Federalism  
3 cr. Undergraduate.  
Constitutional interpretation, with emphasis on separation of powers, federalism, and property.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Fall 2019, Spring 2019, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 412 Constitutional Law: Civil Rights and Liberties  
3 cr. Undergraduate/Graduate.  
Cases in civil rights and liberties in such areas as equal protection, due process, and First Amendment freedoms.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Spring 2020, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 412G Constitutional Law: Civil Rights and Liberties  
3 cr. Undergraduate/Graduate.  
Cases in civil rights and liberties in such areas as equal protection, due process, and First Amendment freedoms.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Spring 2020, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 415 The Politics of Race, Ethnicity and Immigration  
3 cr. Undergraduate.  
Racial/ethnic histories in the US; political difference and commonality; influence of immigration on political behavior and attitudes.  
**Prerequisites:** jr st.  
**General Education Requirements:** CD  
**Last Taught:** Spring 2019, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 416 Judicial Politics  
3 cr. Undergraduate/Graduate.  
Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Spring 2020, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 416G Judicial Politics  
3 cr. Undergraduate/Graduate.  
Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Spring 2020, Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 417 The Supreme Court  
3 cr. Undergraduate/Graduate.  
Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Fall 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

POL SCI 417G The Supreme Court  
3 cr. Undergraduate/Graduate.  
Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems.  
**Prerequisites:** jr st.  
**Course Rules:** American politics course.  
**Last Taught:** Fall 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
POL SCI 419 Constitutional Interpretation
3 cr. Undergraduate/Graduate.
Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law.
Prerequisites: Pol Sci 411(P) or 412(P).
Course Rules: American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 419G Constitutional Interpretation
3 cr. Undergraduate/Graduate.
Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law.
Prerequisites: Pol Sci 411(P) or 412(P).
Course Rules: American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 421 Party Politics in America
3 cr. Undergraduate/Graduate.
The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency.
Prerequisites: jr st; Pol Sci 103(P) or 104(P).
Course Rules: American politics course.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 421G Party Politics in America
3 cr. Undergraduate/Graduate.
The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency.
Prerequisites: jr st; Pol Sci 103(P) or 104(P).
Course Rules: American politics course.
Last Taught: Fall 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 423 Conduct of American Foreign Affairs
3 cr. Undergraduate/Graduate.
Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies.
Prerequisites: jr st.
Course Rules: International Politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 423G Conduct of American Foreign Affairs
3 cr. Undergraduate/Graduate.
Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies.
Prerequisites: jr st.
Course Rules: International Politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 425 Women in Politics
3 cr. Undergraduate.
Political attitudes and behavior of women; socialization and selection of women for political offices; and women's issues in politics.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 426 Congressional Politics
3 cr. Undergraduate/Graduate.
The role of Congress in shaping public policy, with emphasis on the impact of elections, lawmaking procedures, congressional committees, political parties, interest groups, and presidents.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2018, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 444 Politics and the Bureaucracy
3 cr. Undergraduate/Graduate.
The role of the bureaucracy in policymaking. Political resources of bureaucracy, its ability to influence policy outcomes. Political controls on bureaucracy, and proposals for reform.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2002, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 444G Politics and the Bureaucracy
3 cr. Undergraduate/Graduate.
The role of the bureaucracy in policymaking. Political resources of bureaucracy, its ability to influence policy outcomes. Political controls on bureaucracy, and proposals for reform.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2002, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 450 Urban Political Problems
3 cr. Undergraduate/Graduate.
Reading and analysis of specific urban problems and governmental responses.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 450G Urban Political Problems
3 cr. Undergraduate/Graduate.
Reading and analysis of specific urban problems and governmental responses.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 452 Administrative Law
3 cr. Undergraduate/Graduate.
An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies.
Prerequisites: jr st.
Course Rules: American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 452G Administrative Law
3 cr. Undergraduate/Graduate.
An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies.
Prerequisites: jr st.
Course Rules: American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 464 Sex, Gender, and the Law
3 cr. Undergraduate.
Topics in federal and state law pertaining to women, gender, and feminism, such as reproductive rights, domestic violence, and pay equity.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 467 Elections and Voting Behavior
3 cr. Undergraduate/Graduate.
Psychological and social components of voting behavior, current electoral trends, and role of voters in the governing process.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 471 Problems in Law Studies:
3 cr. Undergraduate/Graduate.
Discussion of selected problems in contemporary law and politics, such as civil rights movements or law and sexuality.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 471G Problems in Law Studies:
3 cr. Undergraduate/Graduate.
Discussion of selected problems in contemporary law and politics, such as civil rights movements or law and sexuality.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 473 Public Opinion
3 cr. Undergraduate.
Formation of opinions within and among political publics; role of public opinion in the development and practice of governmental policy.
Prerequisites: jr st.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 473G Public Opinion
3 cr. Undergraduate.
Formation of opinions within and among political publics; role of public opinion in the development and practice of governmental policy.
Prerequisites: jr st.
Last Taught: Spring 2013, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 475 Political Psychology
3 cr. Undergraduate.
Examination of the psychological origins of citizens' political beliefs and action. An overview of theories and methods in the field of political psychology.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 489 Internship in Political Science
1-6 cr. Undergraduate.
Application of advanced principles in political science in a governmental or political setting.
Prerequisites: jr st; 3.0 GPA; cons supervising faculty member.
Course Rules: One cr earned for academic work related to each 40 hrs of internship work. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/topic chg.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2013, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 500 Capstone Course in Political Science
3 cr. Undergraduate.
Readings and discussions about fundamental political science problems; directed research project tailored to each student's special interests.
Prerequisites: sr st; declared pol sci major; Pol Sci 203(P), 390(P), or 392(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 678 Advanced Undergraduate Laboratory for the Empirical Analysis of Politics
1-3 cr. Undergraduate.
Advanced students enhance their research skills by assisting faculty members on political science research projects in collaboration with other students.
Prerequisites: jr st; cons instr.
Course Rules: Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max.
Last Taught: Spring 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 699 Independent Reading
1-6 cr. Undergraduate.
Students with superior grade-point averages and special aptitudes may be given permission to earn up to 6 cr toward the major by writing a thesis or doing directed research or reading. See Advanced Independent Study for further information. Consult the Political Science Chair.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 700 Scope and Methods of Political Science
3 cr. Graduate.
Critical examination of the normative and empirical methodologies of political science.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 701 Techniques of Political Science Research
3 cr. Graduate.
Introduction to basic techniques of collecting, coding, processing, analyzing, and presenting political data.
Prerequisites: grad st; one undergrad stats course or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 707 Advanced Techniques of Political Science Research
3 cr. Graduate.
Advanced course in quantitative analysis stressing the application of econometric techniques to the study of politics.
Prerequisites: grad st; Pol Sci 701(P).
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations.
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 705 Professionals and Volunteers in Nonprofit Organizations
3 cr. Graduate.
Seminar in techniques of management of professionals and volunteers in nonprofit organizations.
Prerequisites: grad st.
Course Rules: Nonprofit 705 & Pol Sci 705 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 711 Current Topics in Political Science:
1-3 cr. Graduate.
This course will address a specific topic or methodological approach of general disciplinary importance.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic & cons advisor & instr to 6 cr max.
Last Taught: Fall 2017, Spring 2017, Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 715 Introduction to Comparative Politics I
3 cr. Graduate.
First part of a two-semester introductory seminar in comparative politics, emphasizing the logic of comparison and introducing broad themes in the subfield.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 716 Intro to Comparatv Politics II
3 cr. Graduate.
The second course in a graduate introduction to comparative politics. Foundation for students considering further work in comparative politics; emphasis on empirical research literature.
Prerequisites: grad st; Pol Sci 715(P) or cons instr
Last Taught: Spring 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 720 Theoretical and Methodological Issues of Comparative Politics
3 cr. Graduate.
Seminar on theory construction, research design, and the logic of comparative social inquiry.
Prerequisites: grad st.
Last Taught: Fall 2007, Fall 2003, Fall 2000, Fall 1998.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 725 Judicial Politics and Behavior
3 cr. Graduate.
Readings in the field of judicial politics and behavior, with particular attention to decision making in collegial courts and to scientific methods of analysis.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2013, Spring 2009, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 727 Seminar in Constitutional Law
3 cr. Graduate.
Major trends in constitutional case law and in critical analysis of the role of the court in American democracy.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 749 Seminar in American Political Institutions
3 cr. Graduate.
Overview of political institutions including executives, legislatures, bureaucracies, courts, interest groups and others and the role they play in the political and policy process.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2016, Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 750 Seminar in the Study of American Political Behavior
3 cr. Graduate.
Readings and research on a broad range of topics related to political behavior. Concentration on the political science literature on mass political behavior with some attention to the behavior of political elites.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2015, Spring 2013, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 751 Seminar in Public Policy Formation
3 cr. Graduate.
Nature and consequences of constraints upon policy-makers in political institutions.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 763 Scope and Dynamics of Public Administration
3 cr. Graduate.
The field of public administration, including organization theory, public management, the politics of administration, and the role of government in policy-making.
Prerequisites: grad st.
Course Rules: Pol Sci 763 & Pub Adm 763 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 769 Analyzing and Evaluating Public Policies and Programs
3 cr. Graduate.
Examination of methods, including cost-benefit analysis and decision analysis, that aid policy makers and administrators in understanding and assessing public and nonprofit sector policies and programs.
Prerequisites: grad st.
Course Rules: Pol Sci 769 & Pub Adm 769 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 791 Nonprofit Advocacy and Public Policy
3 cr. Graduate.
Prerequisites: grad st
Course Rules: Nonprof 791 & Pol Sci 791 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 793 Law of Nonprofit Organizations
3 cr. Graduate.
Legal concepts and issues relevant to the formations and operations of nonprofit organizations. Complying with applicable federal and state statutes and regulations.
Prerequisites: grad st
Course Rules: Nonprof 793 & Pol Sci 793 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 801 Proseminar in Political Theory
3 cr. Graduate.
Political theory for graduate students in any field, based on historical and contemporary texts that illustrate different understandings of politics and political theory.
Prerequisites: grad st
Last Taught: Spring 2020, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 814 Major Political Theorists:
3 cr. Graduate.
Consideration of selected political theorists, periods, or traditions. Attention given to issues of textual interpretation, historical context, and conceptual analysis.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 815 Problems in Political Theory:
3 cr. Graduate.
Selected concepts and controversies in the historical and contemporary literature of political theory, such as authority, obligation, equality, justice and the explanation of human conduct.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
POL SCI 816 Seminar in Positive Political Theory
3 cr. Graduate.
Selected topics in rationality-based approaches to the study of politics.
Prerequisites: grad st; Pol Sci 701(817)(P) & 875(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2011, Fall 2009, Fall 2007, Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 817 Feminist Theory and Politics
3 cr. Graduate.
Examination and analysis of historical and theoretical aspects of feminist theory and politics including liberal, cultural, radical, postmodern, and queer political theory.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 818 Theories of International Political Economy
3 cr. Graduate.
Analysis of major political theories of international economic relations. Examine international political economy issues in industrial developing, and communist countries.
Prerequisites: grad st; intro courses in Econ & Intlrel.
Last Taught: Fall 2018, Fall 2014, Fall 2011, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 855 Comparative Urban Politics
3 cr. Graduate.
Examination of critical roles, structures, and processes of urban politics in different cultural settings. Selected to facilitate comparisons between the urban political process in developed and underdeveloped nations.
Prerequisites: second semester grad student.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Summer 2017, Fall 2012, Summer 2012, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 913 Seminar in Urban Political Process
3 cr. Graduate.
Analysis of the forces and processes that shape urban political life, with particular emphasis on patterns of government, political culture, power structures, and civic participation in urban and metropolitan communities.
Prerequisites: grad st.
Course Rules: Pol Sci 913 & Urb Std 913 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 914 Seminar in Intergovernmental Relations
3 cr. Graduate.
Policy issues in intergovernmental relations and the complex governmental context in which Americans live and work.
Prerequisites: grad st.
Course Rules: Pol Sci 914 & Pub Adm 914 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2016, Fall 2014, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 925 Applied Bayesian Modeling for the Social Sciences
3 cr. Graduate.
Theoretical foundations of Bayesian in comparison to Frequentist inference as well as applications of MCMC simulation to GLMs, hierarchical, time-series and measurement models.
Prerequisites: grad st; Pol Sci 935(P) or equiv.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 926 Seminar in the Legislative Process
3 cr. Graduate.
Analysis of the legislative process and the role of the legislature in the political system and research in legislative behavior.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 929 Seminar in Voting Behavior
3 cr. Graduate.
Voter decision making within and between elections.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 935 Seminar in Advanced Political Science Methodology
3 cr. Graduate.
An advanced seminar in selected topics on political science methodology.
Prerequisites: grad st; Pol Sci 701(817)(P).
Last Taught: Spring 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 936 Applied Bayesian Modeling for the Social Sciences
3 cr. Graduate.
Theoretical foundations of Bayesian in comparison to Frequentist inference as well as applications of MCMC simulation to GLMs, hierarchical, time-series and measurement models.
Prerequisites: grad st; Pol Sci 935(P) or equiv.
Last Taught: Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 950 Seminar in Comparative Politics: Western Nations
3 cr. Graduate.
Variable content course.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 952 The Politics of Developing Nations:
3 cr. Graduate.
Variable content course.
Prerequisites: grad st.
POL SCI 953 Seminar in American Foreign Policy
3 cr. Graduate.
Analysis-in-depth of selected issues in the formulation and execution of American foreign policy, emphasizing recent problems, changes in world conditions, and methods of studying American policy.
Prerequisites: grad st.
Last Taught: Spring 2019, Spring 2016, Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 956 Political Culture and Behavior: Industrial Nations
3 cr. Graduate.
Political culture and mass political behavior in industrialized societies, including theories of ideology, multiculturalism, and political parties. A data-based paper is required.
Prerequisites: grad st; Pol Sci 701(817)(P) or equiv prep in statistics.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 960 International Conflict
3 cr. Graduate.
Examines positive theories and quantitative research pertaining to causes and resolution of international conflict.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 962 Ethnic Conflict
3 cr. Graduate.
Origins, strategies, duration, and termination of ethnic conflicts; international intervention.
Prerequisites: grad st
Last Taught: Fall 2019, Spring 2017, Fall 2013, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 963 Seminar in Judicial Process and Behavior
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 964 Seminar in Constitutional Politics
3 cr. Graduate.
Various approaches to the study of constitutional politics, including law as ideology, noninterpretivism, originalism, and departmentalism.
Prerequisites: grad st; Pol Sci 727(P).
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 972 Interest Groups and Public Policy
3 cr. Graduate.
Research seminar in the formal and informal role of interest groups in policy development enactment, and administration access and tactics of political pressure, analysis of private and public power relationships.
Prerequisites: grad st.
Last Taught: Fall 2007, Fall 2005, Fall 2003, Spring 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 973 Political Parties
3 cr. Graduate.
Selection of problems and design of research on the organization and processes of political parties.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 974 Seminar in Politics and Public Policy
3 cr. Graduate.
Research in the formulation and execution of public policy in a democratic society.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 975 Comparative Authoritarianism
3 cr. Graduate.
Domestic and international politics of authoritarian regimes; methods of rule, regime survival strategies, and political economy.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 976 Seminar in Comparative Public Policy
3 cr. Graduate.
Major theories and methods in comparative public policy relevant to specific areas of the world. Area focus varies from semester to semester.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 6 cr max.
Last Taught: Spring 2019, Spring 2015, Spring 2013, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 990 Research and Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

POL SCI 999 Independent Work
1-3 cr. Graduate.
Individual work directed by a member of the graduate faculty.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

Portuguese (PORTUGS)

PORTUGS 103 First-Semester Portuguese
4 cr. Undergraduate.
Beginner-level Portuguese; listening, speaking, reading, writing, and grammar.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 104 Second-Semester Portuguese
4 cr. Undergraduate.
Continuation of Portugus 103.
Prerequisites: Portugus 103(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/
PORTUGS 110 Accelerated Portuguese I
3 cr. Undergraduate.
Accelerated beginner-level course designed to enable students to develop comprehensive listening, speaking, reading, and writing skills in Portuguese.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
Last Taught: Fall 2005, Fall 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/change in topic.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult department chair.
Prerequisites: 2.50 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Fall 2019, Summer 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 203 Third-Semester Portuguese
3 cr. Undergraduate.
Prerequisites: Portugs 104(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 204 Fourth-Semester Portuguese
3 cr. Undergraduate.
Prerequisites: Portugs 203(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 215 Portuguese Weekend Immersion Experience:
1 cr. Undergraduate.
Immersion experience for students at the intermediate and advanced levels designed to expose them to the Portuguese language and culture.
Prerequisites: Portugs 104(P) or 110(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 225 Understanding Brazil:
3 cr. Undergraduate.
Topics in Brazilian culture and society.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 227 Portuguese Discussion Section:
1-2 cr. Undergraduate.
Discussion in Portuguese, designed to broaden perspectives, improve language skills.
Prerequisites: Portugs 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 289 Internship in Portuguese, Lower Division
1-3 cr. Undergraduate.
Application of basic principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Portugs; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship.May be retaken to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Fall 2012, Spring 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
PORTUGS 310 Advanced Composition and Conversation
3 cr. Undergraduate.
Designed to develop students' oral and writing skills.
Prerequisites: Portugs 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 313 Advanced Speaking and Listening
3 cr. Undergraduate.
Practice in speaking and listening for advanced students through discussion of Luso-Brazilian audiovisual and/or multi-media cultural tools; follow-up reading, writing, and grammar activities.
Prerequisites: Portugs 204(P) or equiv.
Course Rules: Generates L&S credit for demonstrated equivalent preparation (14 retro crs).
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 360 Luso-Brazilian Culture:
3 cr. Undergraduate.
One or more aspects of contemporary culture in the Portuguese-speaking world.
Prerequisites: jr st or cons instr.
Course Rules: In English. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 380 Luso-Brazilian Literature in Translation:
3 cr. Undergraduate.
Selected works of Brazilian, Portuguese, and/or African Lusophone literature from different periods and genres, and representing several subjects.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/change in topic.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 446 The Portuguese-Speaking World: Sociolinguistic Perspectives
3 cr. Undergraduate/Graduate.
Examination of the history and development of Portuguese language and sociolinguistics in Portugal, Brazil, and former Portuguese colonies in Africa and Asia.
Prerequisites: jr st.
Course Rules: To count toward Portugs minor, coursework must be done in Portugs.
Last Taught: Fall 2014, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 446G The Portuguese-Speaking World: Sociolinguistic Perspectives
3 cr. Undergraduate/Graduate.
Examination of the history and development of Portuguese language and sociolinguistics in Portugal, Brazil, and former Portuguese colonies in Africa and Asia.
Prerequisites: jr st.
Course Rules: To count toward Portugs minor, coursework must be done in Portugs.
Last Taught: Fall 2014, Spring 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 457 Seminar in Luso-Brazilian Literature
3 cr. Undergraduate/Graduate.
Survey introduction to Brazilian, Portuguese, and/or African literature.
Prerequisites: jr st or cons. instr.
Course Rules: Taught in Portuguese with readings in Portuguese. To count towards the Portuguese minor, course work must be written in Portuguese. Graduate students may complete work in Spanish or Portuguese.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 457G Seminar in Luso-Brazilian Literature
3 cr. Undergraduate/Graduate.
Survey introduction to Brazilian, Portuguese, and/or African literature.
Prerequisites: jr st or cons. instr.
Course Rules: Taught in Portuguese with readings in Portuguese. To count towards the Portuguese minor, course work must be written in Portuguese. Graduate students may complete work in Spanish or Portuguese.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 489 Internship in Portuguese, Upper Division
1-3 cr. Undergraduate.
Application of advanced principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Portugs; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
PORTUGS 499 Ad Hoc
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 697 Study Abroad:
1 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 697G Study Abroad:
1 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PORTUGS 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under supervision of a Portugs faculty
or instructional academic staff member. Students must submit study
proposal. For more information, consult dept chair.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and
Assistant Dean for Student Academic Services.
Course Rules: May be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 101 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time
the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 199 Independent Study
1-3 cr. Undergraduate.
May be retaken w/chg in topic.
Prerequisites: none.
Course Rules: For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and
Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 205 Personality
3 cr. Undergraduate.
Principles of personality; an overview of adaptive and maladaptive
behavior patterns.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 210 Psychological Statistics
4 cr. Undergraduate.
Use of statistical techniques in Psychology. Lec & Lab.
Prerequisites: Psych 101(P); satisfaction of GER Quant Lit Part A req.
General Education Requirements:QLB
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 214 Introduction to Conditioning and Learning
3 cr. Undergraduate.
Introduction to principles and procedures of conditioning and learning.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 220 Social Psychology: Psychological Perspectives
3 cr. Undergraduate.
Areas of social psychology such as aggression, attitudes, interpersonal
attraction, and group processes examined from a psychological
perspective.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 254 Physiological Psychology
3 cr. Undergraduate.
The physiological bases of behavior.
Prerequisites: Psych 101(P).
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

Psychology (PSYCH)

PSYCH 101 Introduction to Psychology
3 cr. Undergraduate.
The scientific study of behavior.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 230 Social Psychology: Psychological Perspectives
3 cr. Undergraduate.
Areas of social psychology such as aggression, attitudes, interpersonal
attraction, and group processes examined from a psychological
perspective.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 254 Physiological Psychology
3 cr. Undergraduate.
The physiological bases of behavior.
Prerequisites: Psych 101(P).
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/
PSYCH 260 Child Psychology
3 cr. Undergraduate.
The development of the child.
Prerequisites: Psych 101(P).

PSYCH 290 Undergraduate Research: Lower Division
1-3 cr. Undergraduate.
Independent research under the supervision of a faculty member.
Prerequisites: fr & soph st only; Psych 101(P) and sponsorship by a faculty member.
Course Rules: May be retaken for cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 292 Psychology Field Placement-Lower Division
3 cr. Undergraduate.
Prerequisites: Psych 101(P); cons instr & placement supervisor.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 319 Gay and Lesbian Psychology
3 cr. Undergraduate.
Psychological theory and research on sexual orientation.
Prerequisites: jr st; Psych 101(P).
Course Rules: Foundations course.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 320 Psychology of Women
3 cr. Undergraduate.
Psychological theory and research on how gender influences our thinking, feelings, and behavior.
Prerequisites: jr st; Psych 101(P).
Course Rules: Foundations course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 325 Research Methods in Psychology
4 cr. Undergraduate.
Design and execution of psychological research. Collection, analysis, and reporting of data. Lec & Lab.
Prerequisites: 2.62 gpa in Psych 101(P) & 210(P); grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 345 Introduction to Neuroscience I: From Neuron to Brain
3 cr. Undergraduate.
Basic principles of cellular, molecular, and developmental neuroscience; structure/function of neurons and glia, chemical and electrical signaling, brain development, and neurological diseases.
Prerequisites: C or better in BioSci 315(P) or Psych 254(P).
Course Rules: Systems course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 354 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 355 Introduction to Neuroscience II: From Brain to Behavior
3 cr. Undergraduate.
Basic principles of neural systems and behavior; analysis of systems for sensation and perception, learning and memory, language, emotion, and motion.
Prerequisites: Bio Sci 152(P) & 315(C), or Psych 254(P).
Course Rules: Systems Course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 355 & Psych 355 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 380 Honors Seminar:
3 cr. Undergraduate.
Selected topics in psychology.
Prerequisites: soph st; Honors 200(P); cons Honors College dir; Psych 101(P).
Course Rules: Foundations course. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Last Taught: Spring 2013, Fall 2011, Fall 2010, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 407 Personality Theory
3 cr. Undergraduate.
Theories of personality. 2 hrs lec, 1 hr dis
Prerequisites: Psych 205(P).
Course Rules: Systems course.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
PSYCH 412 Abnormal Psychology
3 cr. Undergraduate.
Psychology of abnormal behavior; the nature and social-biological origins of psychotic, neurotic, and other behavioral abnormalities.
Prerequisites: Psych 101(P).
Course Rules: Foundations and Systems course.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 433 Neuropsychology
3 cr. Undergraduate.
Introduction to the theory, research literature and assessment of the cognitive and emotional aspects of brain function. Systems course.
Prerequisites: Psych 254(P) or cons instr.
Course Rules: Foundations course.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 454 Psychopharmacology and Addiction
3 cr. Undergraduate.
Examination of mode of action, acute and chronic effects, and the neurobiological and psychological characteristics of psychoactive drugs with an emphasis on addiction.
Prerequisites: Psych 254(P) or cons instr.
Course Rules: Foundations course.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 1989.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 502 Applied Behavior Analysis
4 cr. Undergraduate/Graduate.
Learning and motivation of human behavior in applied settings. Lab work in community agencies using operant methods, behavior modification, programmed instruction, AV systems. Lec, Lab.
Prerequisites: jr st; Psych 325(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 502G Applied Behavior Analysis
4 cr. Undergraduate/Graduate.
Learning and motivation of human behavior in applied settings. Lab work in community agencies using operant methods, behavior modification, programmed instruction, AV systems. Lec, Lab.
Prerequisites: jr st; Psych 325(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 503 Perception
3 cr. Undergraduate/Graduate.
The nature of perception and its relation to environmental and internal processes.
Prerequisites: jr st; 9 cr in psych.
Course Rules: Systems course.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 503G Perception
3 cr. Undergraduate/Graduate.
The nature of perception and its relation to environmental and internal processes.
Prerequisites: jr st; 9 cr in psych.
Course Rules: Systems course.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 505 Cognitive Processes
4 cr. Undergraduate/Graduate.
Human information processing, emphasizing vision and language. Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.
Prerequisites: jr st; Psych 325(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 505G Cognitive Processes
4 cr. Undergraduate/Graduate.
Human information processing, emphasizing vision and language. Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.
Prerequisites: jr st; Psych 325(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 510 Advanced Psychological Statistics
3 cr. Undergraduate/Graduate.
Topics include probability and sampling theory, correlational methods, and nonparametric techniques. Foundations course.
Prerequisites: jr st & Psych 210(P); or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Type</th>
<th>Schedule Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 510G</td>
<td>Advanced Psychological Statistics</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>Topics include probability and sampling theory, correlational methods, and nonparametric techniques. Foundations course.</td>
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<td><strong>Prerequisites:</strong> jr st &amp; Psych 210(P); or grad st.</td>
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<tr>
<td>PSYCH 514</td>
<td>Conditioning and Learning</td>
<td>4</td>
<td>Undergraduate/Graduate</td>
<td>Principles of conditioning and learning. Lec, lab.</td>
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<td><strong>Prerequisites:</strong> jr st, Psych 325(P).</td>
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<td><strong>Course Rules:</strong> Required special course fee assessed; announced in Schedule of Classes each semester.</td>
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<td><strong>Last Taught:</strong> Spring 2018, Fall 2017.</td>
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<tr>
<td>PSYCH 514G</td>
<td>Conditioning and Learning</td>
<td>4</td>
<td>Undergraduate/Graduate</td>
<td>Principles of conditioning and learning. Lec, lab.</td>
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<td><strong>Prerequisites:</strong> jr st, Psych 325(P).</td>
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<tr>
<td>PSYCH 540</td>
<td>Clinical Psychology: Science and Practice</td>
<td>3</td>
<td>Undergraduate</td>
<td>Key concepts, findings, and their applications in the field of research and practice of clinical science.</td>
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<td><strong>Prerequisites:</strong> jr st.</td>
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<td><strong>Course Rules:</strong> Foundations course.</td>
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<td><strong>Last Taught:</strong> Spring 2020, Fall 2019, Spring 2019, Spring 2018.</td>
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<tr>
<td>PSYCH 550</td>
<td>History of Psychology</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>The important philosophical and scientific antecedents of contemporary psychology.</td>
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<td><strong>Prerequisites:</strong> jr st; 9 cr in psych.</td>
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<td><strong>Course Rules:</strong> Systems course.</td>
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<td><strong>Last Taught:</strong> Spring 2020, Fall 2019.</td>
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<tr>
<td>PSYCH 550G</td>
<td>History of Psychology</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>The important philosophical and scientific antecedents of contemporary psychology.</td>
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<tr>
<td>PSYCH 551G</td>
<td>Learning and Motivation Theories</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>Contemporary psychological theories, with special emphasis on theories of learning.</td>
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<td><strong>Prerequisites:</strong> jr st; 9 cr in psych.</td>
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<td><strong>Last Taught:</strong> Spring 2015, Spring 2014.</td>
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<tr>
<td>PSYCH 555</td>
<td>Health Psychology</td>
<td>3</td>
<td>Undergraduate</td>
<td>Psychological contributions to physical health in areas such as changing health habits, stress and coping, pain, and chronic illness.</td>
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<td><strong>Prerequisites:</strong> Psych 254(P) or cons instr.</td>
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<tr>
<td>PSYCH 578</td>
<td>Psychology of Race, Ethnicity, and Health</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>Psychological theory and research on how health is related to race and ethnicity.</td>
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<td><strong>Prerequisites:</strong> jr st, Psych 101(P); or grad st.</td>
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<td><strong>Course Rules:</strong> Foundations course. No cr for students w/cr in Psych 611 w/similar topic.</td>
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<tr>
<td>PSYCH 610</td>
<td>Experimental Design</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>Design and analysis of single and multi-factor experiments; tests for trends; multiple comparisons. Foundations course.</td>
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<td><strong>Prerequisites:</strong> jr st &amp; Psych 210(P); or grad st.</td>
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<td>Undergraduate/Graduate</td>
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<td>PSYCH 611</td>
<td>Current Topics</td>
<td>3</td>
<td>Undergraduate/Graduate</td>
<td>Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.</td>
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<td><strong>Prerequisites:</strong> jr st.</td>
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<td><strong>Course Rules:</strong> Foundations course. May be retaken w/chg in topic to 9 cr max.</td>
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[link] https://catalog.uwm.edu/course-search/
PSYCH 611G Current Topics:
3 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: Foundations course. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 620 Single-Subject Research Methods
3 cr. Undergraduate/Graduate.
A review of single-subject research methods.
Prerequisites: jr st & Psych 325(P), or grad st; or cons instr.
Course Rules: Foundations course.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 620G Single-Subject Research Methods
3 cr. Undergraduate/Graduate.
A review of single-subject research methods.
Prerequisites: jr st & Psych 325(P), or grad st; or cons instr.
Course Rules: Foundations course.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 623 Perceptual Processes
4 cr. Undergraduate.
Experimental investigation of perception.
Prerequisites: jr st & Psych 325(P)
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 627 Cognitive Neuroscience
3 cr. Undergraduate.
How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.
Prerequisites: jr st, Psych 210(P) & 254(P).
Course Rules: Systems course. Counts as repeat of Psych 611 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 645 Hormones and Behavior
3 cr. Undergraduate.
Effects of hormones on behavior and brain function in various species.
Prerequisites: jr st, Psych 254(R).
Course Rules: Counts as repeat of Psych 611 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 654 Advanced Physiological Psychology
4 cr. Undergraduate/Graduate.
Advanced topics in physiological psychology. Lec, lab.
Prerequisites: jr st; Psych 254(P) & 325(P).
Course Rules: Required special course fee assessed; announced in Schedule of Classes each sem.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 654G Advanced Physiological Psychology
4 cr. Undergraduate/Graduate.
Advanced topics in physiological psychology. Lec, lab.
Prerequisites: jr st; Psych 254(P) & 325(P).
Course Rules: Required special course fee assessed; announced in Schedule of Classes each sem.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 656 Psychophysiology
4 cr. Undergraduate.
Experimental investigation of physiological factors in human behavior. Lec, lab.
Prerequisites: jr st; Psych 254(R).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 657 Neurobiology of Learning and Memory
3 cr. Undergraduate/Graduate.
Functional and structural alterations in nervous system underlying organism’s ability to learn/remember. Principles drawn from molecular and cellular neurobiology, neurophysiology, neuroanatomy, and behavioral neuroscience.
Prerequisites: jr st.
Course Rules: Systems course. Counts as repeat of Psych 611 w/same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 657G Neurobiology of Learning and Memory
3 cr. Undergraduate/Graduate.
Functional and structural alterations in nervous system underlying organism’s ability to learn/remember. Principles drawn from molecular and cellular neurobiology, neurophysiology, neuroanatomy, and behavioral neuroscience.
Prerequisites: jr st.
Course Rules: Systems course. Counts as repeat of Psych 611 w/same topic.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 660 Experimental Child Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of child behavior and development. Lec, lab.
Prerequisites: jr st; Psych 260(R) & 325(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 660G Experimental Child Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of child behavior and development. Lec, lab.
Prerequisites: jr st; Psych 260(R) & 325(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 677 Experimental Social Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of social behavior. Lec, lab.
Prerequisites: jr st; Psych 230(R) & 325(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
PSYCH 677G Experimental Social Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of social behavior. Lec, lab.
Prerequisites: jr st; Psych 230(R) & 325(P).
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 680 Psychology of Aging
3 cr. Undergraduate/Graduate.
Extension of principles of general psychology to the process of aging.
Prerequisites: jr st; Psych 325(P) or cons instr.
Course Rules: Systems course.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 680G Psychology of Aging
3 cr. Undergraduate/Graduate.
Extension of principles of general psychology to the process of aging.
Prerequisites: jr st; Psych 254(R).
Course Rules: Counts as repeat of Psych 611 with same topic.
Last Taught: Spring 2020, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 690 Undergraduate Research: Upper Division
1-3 cr. Undergraduate.
Independent research under the supervision of a faculty member.
Prerequisites: jr st; sponsorship by a faculty member.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 692 Field Placement in Psychology
3 cr. Undergraduate.
Prerequisites: jr st; cons instr & placement supervisor.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 697 Field or Research Placement in Psychology for Seniors
3 cr. Undergraduate.
Prerequisites: sr st; cons instr &, if appropriate, placement supervisor.
Course Rules: Fulfills Capstone req.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 698 Senior Thesis
3 cr. Undergraduate.
Completion of thesis under the supervision of faculty.
Prerequisites: sr st; 3.5 gpa in all Psych course work or cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 699 Independent Study
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Psych faculty member. Students must submit study proposal to the prof with whom they wish to study. For additional information, consult supervising prof.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 702 Applied Behavior Analysis
3 cr. Graduate.
Use of learning principles and procedures to solve behavior problems. 3 hrs lec, 1 hr dis.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 705 Information Processing
3 cr. Graduate.
Introduction to cognitive psychology from an information processing perspective. Core course in cognition for the cognition/perception area.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 706 Psychology of Language
3 cr. Graduate.
An overview of the cognitive processes involved in language comprehension. An advanced course in cognition for the cognition/perception area.
Prerequisites: grad st; some background in linguistics or cognitive psych recom, e.g. Psych 705(R).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 710 Survey of Clinical Research Methods
3 cr. Graduate.
Various research methods in clinical psychology.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 711 Current Topics in Psychology:
1-4 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 712 Professional Ethics and Issues in Clinical Psychology
3 cr. Graduate.
Introduction to clinical practice and ethics.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
PSYCH 714 Conditioning and Learning
3 cr. Graduate.
Principles of classical conditioning and instrumental learning. 3 hr lec, 1 hr dis
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 724 Proseminar in Behavior Analysis
3 cr. Graduate.
A review of conceptual, methodological, and professional issues associated with the science and application of behavior analysis.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 725 Ethical and Professional Conduct for Behavior Analysts
3 cr. Graduate.
Ethical and professional issues pertaining to behavior analysts working in clinical, educational, academic, and other settings.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 727 Cognitive Neuroscience
3 cr. Graduate.
How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.
Prerequisites: grad st.
Course Rules: Counts as repeat of 711 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 730 Practicum in Behavior Analysis
3 cr. Graduate.
Hands-on experience providing behavior analysis services.
Prerequisites: grad st; cons instr & placement supervisor.
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 734 Introduction to Scientifically-Validated Treatments
1 cr. Graduate.
The use of psychological interventions for treating numerous psychological conditions.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 736 Functional Assessment and Intervention
3 cr. Graduate.
Methods for determining the variables of which behavior is a function and selecting function-based interventions.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 741 Foundations of Psychotherapy
3 cr. Graduate.
Introduction to psychotherapies: origins, orientations, procedures, and empirical support.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 742 Empirically-Supported Interventions
3 cr. Graduate.
Research-supported therapy protocols for a variety of behavioral disorders; didactic instruction and role-play practice/feedback.
Prerequisites: grad st; some background in psychopathology & systems of psychotherapy recom.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 745 Hormones and Behavior
3 cr. Graduate.
Effects of hormones on behavior and brain function in various species. Counts as repeat of Psych 711 with same topic.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 750 The History of Psychology
3 cr. Graduate.
Examination of the grounding of modern psychological theory and practice in the history of western culture. 3 hrs lec, 1 hr dis.
Prerequisites: grad st.
Course Rules: Not open to students with cr in Psych 550(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 754 Proseminar in Biological Psychology
3 cr. Graduate.
Overview of current topics in neuroscience including neuropsychopharmacology, neuropsychology, psychophysiology, and behavioral medicine.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 756 Psychophysiology
3 cr. Graduate.
Experimental investigation of physiological factors in behavior. 2 hrs lec; 1 hr dis.
Prerequisites: grad st.
Course Rules: Not open to students with cr in Psych 656(ER).
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 760 Experimental Child Psychology
3 cr. Graduate.
Investigation of experimental research relating to infant and child behavior. Lec, Lab, Dis.
Prerequisites: grad st.
Course Rules: No cr for students w/cr in Psych 660(ER).
Current Offerings: https://catalog.uwm.edu/course-search/
PSYCH 762 Lifespan Developmental Psychology  
3 cr. Graduate.  
Survey of developmental theory from a life-span perspective, with an emphasis on historical roots of developmental psychology, contemporary integrated theoretical perspectives, and cross-cultural perspectives.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2013.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 782 The Aging Brain  
3 cr. Graduate.  
Effects of aging process on brain function; resulting effects on psychological function. Counts as repeat of Psych 711 with same topic.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2020, Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 790 Masters Research  
1-6 cr. Graduate.  
**Prerequisites:** grad st & cons advisory committee.  
**Course Rules:** Retakable.  
**Last Taught:** Summer 2020, Spring 2020, Fall 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 791 Project in Psychology  
3 cr. Graduate.  
Independent research with a faculty member to fulfill the master’s thesis requirement for incoming students with a master’s degree without a thesis.  
**Prerequisites:** grad st; cons advisory committee.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 799 Advanced Independent Study  
1-6 cr. Graduate.  
**Prerequisites:** grad st & sponsorship by a faculty member.  
**Course Rules:** Retakable w/chg in topic.  
**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Fall 2015.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 802 First-Year Clinical Psychology Practicum  
3 cr. Graduate.  
Administration of psychological tests to clinic clients; interviewing, contact with referred sources; feedback of test results to clients, written reports and co-therapy with experienced therapist.  
**Course Rules:** Retakable to 6 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 811 Community Placement in Clinical Psychology  
3 cr. Graduate.  
Specific agency and additional prerequisites announced in the schedule of classes each time the course is offered.  
**Prerequisites:** grad st; cons instr & placement supervisor.  
**Course Rules:** Retakable w/chg of placement to 9 cr max.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 812 Field Placement in Psychology  
3 cr. Graduate.  
**Prerequisites:** grad st; cons instr & placement supervisor.  
**Course Rules:** Retakable for cr.  
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 815 Cases in Clinical Neuropsychology  
1 cr. Graduate.  
Didactic training in clinical neuropsychological evaluation, diagnosis, treatment, and consulting. Format includes lectures, journal reviews, and case conferences.  
**Prerequisites:** Clinical psych doctoral student or cons instr.  
**Course Rules:** Retakable to 5 cr max. Counts as repeat of Psych 711 w/ similar topic.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 821 Practicum in Assessment I  
1-3 cr. Graduate.  
Practical experience utilizing techniques used in Assessment I (Psych 831).  
**Prerequisites:** grad st; Psych 712(P), 801(P), 912(P); clinical training prog. Conc reg Psych 831(C) by clinical Psych students.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 822 Practicum in Assessment II  
1-3 cr. Graduate.  
Practical experience utilizing techniques used in Assessment II (Psych 832).  
**Prerequisites:** grad st; Psych 821(P); clinical training prog. Psych 832(C) by clinical psych students.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 831 Assessment I  
3 cr. Graduate.  
Objective techniques used in the appraisal of personality and intellectual processes.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 832 Assessment II  
3 cr. Graduate.  
Neuropsychological, child-focused, and projective techniques used in the appraisal of personality and intellectual processes.  
**Prerequisites:** grad st; Psych 831(P).  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 833 Neuropsychology  
3 cr. Graduate.  
Anatomy, pathology, and neuropsychology of the higher brain functions in humans. Prereq: grad st.  
**Last Taught:** Spring 2019, Spring 2015, Spring 2012, Spring 2007.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 838 Child Neuropsychology  
3 cr. Graduate.  
Developmental, functional, and in utero conditions affecting children’s psychological development.  
**Prerequisites:** grad st; Psych 833(P).  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 840 Springfield Neuropsychiatric Institute  
3 cr. Graduate.  
Participation in the Neuropsychiatric Institute’s treatment of severe mental disorders and disabilities.  
**Prerequisites:** grad st; cons instr.  
**Last Taught:** 2019, 2017.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 841 Neuropsychological Assessment  
3 cr. Graduate.  
Psychological, neuropsychological, and physical-organic assessment of an adult.  
**Prerequisites:** grad st; Psych 812(P) or cons instr.  
**Last Taught:** Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 842 Neuropsychological Treatment  
3 cr. Graduate.  
Psychological, neuropsychological, and physical-organic treatment of an adult.  
**Prerequisites:** grad st; Psych 841(P) or cons instr.  
**Last Taught:** Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 843 Neuropsychological Consultation  
3 cr. Graduate.  
Consultation with medical and psychological practitioners on neuropsychological issues; preparation of written reports.  
**Prerequisites:** grad st; Psych 812(P) or cons instr.  
**Last Taught:** Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 844 Neuropsychological Research  
3 cr. Graduate.  
Design and administer psychological and neuropsychological tests that assess cognitive function.  
**Prerequisites:** grad st; Psych 812(P) or cons instr.  
**Last Taught:** Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 845 Neuropsychological Counseling  
3 cr. Graduate.  
Psychological and neuropsychological counseling using techniques that are the same as applied in other counseling situations.  
**Prerequisites:** grad st; Psych 812(P) or cons instr.  
**Last Taught:** Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

PSYCH 846 Neuropsychological Teaching  
2 cr. Graduate.  
Practical application and principles of teaching cognitive and neuropsychological skills.  
**Prerequisites:** grad st; Psych 812(P) or cons instr.  
**Last Taught:** Spring 2019.  
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
PSYCH 834 Seminar in Advanced Assessment:  
3 cr. Graduate.  
Specific topics and any additional prerequisites will be announced in the  
Timetable each time the course is offered.  
**Prerequisites:** grad st; Psych 831(P).  
**Course Rules:** Retakable w/chg in topic to 9 cr max.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 842 Practicum in Therapy  
4 cr. Graduate.  
Supervised practicum experience with therapeutic techniques used in  
clinical psychology.  
**Prerequisites:** grad st; Psych 712(P).  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 844 Practicum in Clinical Supervision  
3 cr. Graduate.  
Practicum to enhance theoretical and practical skills for supervising  
clinical work.  
**Prerequisites:** grad st; completion of all required clinical Psych courses &  
practica.  
**Course Rules:** Retakable to 12 cr max.  
**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 845 Practicum in Empirically-Supported Interventions  
1-3 cr. Graduate.  
Application of techniques learned in Psych 742 (Empirically-Supported  
Interventions).  
**Prerequisites:** grad st; Psych 742(C).  
**Course Rules:** Retakable once to 3 cr max.  
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 854 Behavioral Neuroscience  
3 cr. Graduate.  
Introduction to current research and theory regarding the neural basis of  
behavior.  
**Prerequisites:** grad st.  
**Course Rules:** Not open to students who have cr in Psych 654(ER).  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 888 Candidate for Degree  
0 cr. Graduate.  
Available for graduate students who must meet minimum credit load  
requirement.  
**Prerequisites:** graduate standing.  
**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit  
load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.  
**Last Taught:** Spring 2005, Summer 2004, Summer 2003, Fall 1999.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 890 Graduate Research  
1-6 cr. Graduate.  
**Prerequisites:** grad st & sponsorship by a grad faculty member.  
**Course Rules:** Retakable.  
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 911 Current Topics and Techniques in Clinical Psychology:  
3 cr. Graduate.  
**Prerequisites:** grad st.  
**Course Rules:** Retakable w/chg in topic to 9 cr max for masters students &  
12 cr max for doctoral students.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 912 Developmental Psychopathology  
3 cr. Graduate.  
Seminar on concepts and research in the scientific study of  
psychopathology across the lifespan  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 914 Seminar in Stimulus Control  
3 cr. Graduate.  
Seminar on topics of traditional and contemporary theoretical interest in  
stimulus control.  
**Prerequisites:** grad st; Psych 714(P) or equiv.  
**Last Taught:** Spring 2015, Spring 2010, Spring 2008, Spring 2006.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 915 Seminar in Operant Behavior  
3 cr. Graduate.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2013, Spring 2011, Fall 2002, Fall 2001.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 919 Seminar in Classical Conditioning  
3 cr. Graduate.  
Seminar on topics of empirical and theoretical interest in classical  
conditioning.  
**Prerequisites:** grad st; Psych 714(P) or equiv.  
**Last Taught:** Fall 2011, Spring 2009, Spring 2007, Fall 2004.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 930 Seminar in Social Psychology  
3 cr. Graduate.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2020, Fall 2018, Fall 2017, Fall 2016.  
**Current Offerings:** https://catalog.uwm.edu/course-search/

PSYCH 932 Proseminar in Evaluation Research  
3 cr. Graduate.  
In-depth examination of experimental and quasi-experimental  
methodologies for assessing the impact of social innovations; factors  
impeding implementation of such methodologies; utilization of available  
findings.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2007, Spring 1999.  
**Current Offerings:** https://catalog.uwm.edu/course-search/
PSYCH 933 Seminar in Neuroscience
2 cr. Graduate.
Student oral and poster presentations in cellular, molecular, behavioral, and cognitive neuroscience. Students will also write evaluations and summaries of external presentations.
Prerequisites: grad st in Bio Sci, Psych, or Ed Psych or cons instr
Course Rules: Retakable to 8 cr max. Psyc 933 & Bio Sci 933 are jointly offered; students may enroll under only one of the curricular areas in any single semester.
Last Taught: Spring 2020, Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 954 Seminar in Physiological Psychology
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 955 Seminar in Social Psychology and Health
3 cr. Graduate.
Theoretical and empirical contributions of social psychology to health.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 961 Seminar in Child-Clinical Psychology
3 cr. Graduate.
Diagnosis, etiology, therapy, and research in child-clinical psychology are discussed and criticized.
Prerequisites: grad st.
Last Taught: Fall 2007, Fall 2006, Fall 2005, Fall 2001.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 990 Doctoral Research
1-6 cr. Graduate.
Prerequisites: grad st & admis to candidacy for Ph.D. degree.
Course Rules: Retakable.
Current Offerings: https://catalog.uwm.edu/course-search/

PSYCH 995 Clinical Psychology Internship
1-3 cr. Graduate.
Required internship for students in the clinical psychology PhD program.
Prerequisites: clinical psych doctoral student; dissertator status; proposal hearing passed; cons instr.
Course Rules: Considered full time for FA purposes. Retakable. Students who have passed dissertation defense enroll for 1 cr; all others enroll for 3 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

Public Administration (PUB ADM)

PUB ADM 243 Public Administration
3 cr. Undergraduate.
The means used to implement political values with emphasis on problems of administration in modern government.
Prerequisites: none.
Course Rules: Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 400 Ethics and Responsibility in Public Administration
3 cr. Undergraduate/Graduate.
How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards.
Prerequisites: jr st.
Course Rules: Counts as repeat of Pol Sci 387 w/ Administrative Ethics & Responsibility subtitle.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 400G Ethics and Responsibility in Public Administration
3 cr. Undergraduate/Graduate.
How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards.
Prerequisites: jr st.
Course Rules: Counts as repeat of Pol Sci 387 w/ Administrative Ethics & Responsibility subtitle.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 452 Administrative Law
3 cr. Undergraduate/Graduate.
An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies.
Prerequisites: jr st.
Course Rules: American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 452G Administrative Law
3 cr. Undergraduate/Graduate.
An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies.
Prerequisites: jr st.
Course Rules: American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 461 Organizational Theory and Practice
3 cr. Undergraduate/Graduate.
Analysis of the role of organizations in contemporary society, with particular emphasis on governmental organizations that have formal regulation of individual group behavior as their basic functions.
Prerequisites: jr st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 461G Organizational Theory and Practice
3 cr. Undergraduate/Graduate.
Analysis of the role of organizations in contemporary society, with particular emphasis on governmental organizations that have formal regulation of individual group behavior as their basic functions.
Prerequisites: jr st.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
PUB ADM 630 Budgeting and Finance in the Public Sector
3 cr. Undergraduate/Graduate.
Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.
Prerequisites: sr st or cons instr.
Course Rules: Jointly-offered w/ & counts as repeat of UrbPlan 630.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 630G Budgeting and Finance in the Public Sector
3 cr. Undergraduate/Graduate.
Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.
Prerequisites: sr st or cons instr.
Course Rules: Jointly-offered w/ & counts as repeat of UrbPlan 630.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 705 Government Public Relations and Advocacy
3 cr. Graduate.
External communications by public sector managers and planners for purposes of democratic accountability, fulfilling the mission of the agency, and communicating with elected officials.
Prerequisites: Pub Adm 705 & UrbPlan 705 are jointly offered; they count as repeats of one another. Prerq: grad st.
Last Taught: Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 730 Budgeting for Public Sector Professionals
3 cr. Graduate.
Budgeting skills for effective local and state government management; financial reporting, revenue collection and administration, pension funds, debt issuance, analytical techniques used in public budgeting.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 750 Public Administration Risk and Analysis
3 cr. Graduate.
Efficiency analysis; return-on-investment analysis; shared services vs. privatization; total employee compensation as a management tool; risk mitigation; the government purchasing process.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 750G Public Administration Risk and Analysis
3 cr. Graduate.
Efficiency analysis; return-on-investment analysis; shared services vs. privatization; total employee compensation as a management tool; risk mitigation; the government purchasing process.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 763 Scope and Dynamics of Public Administration
3 cr. Graduate.
The field of public administration, including organization theory, public management, the politics of administration, and the role of government in policy-making.
Prerequisites: grad st.
Course Rules: Pol Sci 763 & Pub Adm 763 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 769 Analyzing and Evaluating Public Policies and Programs
3 cr. Graduate.
Examination of methods, including cost-benefit analysis and decision analysis, that aid policy makers and administrators in understanding and assessing public and nonprofit sector policies and programs.
Prerequisites: grad st.
Course Rules: Pol Sci 769 & Pub Adm 769 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 792 Decision-Making for Nonprofit and Public Organizations
3 cr. Graduate.
Research methods including research design, measurement, and analysis. Qualitative and quantitative decision-making methods. Understanding and using basic statistical concepts and techniques in decision making.
Prerequisites: grad st
Course Rules: Nonprof 792 & Pub Adm 792(Pol Sci 792) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 12 cr max. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2016, Spring 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 914 Seminar in Intergovernmental Relations
3 cr. Graduate.
Policy issues in intergovernmental relations and the complex governmental context in which Americans live and work.
Prerequisites: grad st.
Course Rules: Pol Sci 914 & Pub Adm 914 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2016, Fall 2014, Fall 2013, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 921 Public Service Administrative Internship
3 cr. Graduate.
This course combines a supervised field placement in a governmental agency or non-profit organization with class sessions and assignments designed to augment the work experience.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PUB ADM 958 Seminar in Public Administration:
3 cr. Graduate.
Selected topics covering different aspects of public administration.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016, UWinterIM 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
Public Health (PH)

PH 100 New Student Experience in Public Health
1 cr. Undergraduate.
Students new to UWM develop academic and life skills for success, explore campus resources, and reflect on personal development and careers in public health.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 101 Introduction to Public Health
3 cr.
Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education.
Prerequisites: none.
Course Rules: PH 101 and CGS HES 101 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

PH 142 Exploring Global Environmental Health
3 cr. Undergraduate.
Introduction to the sciences underpinning the study and response to infectious, chemical, and physical environmental threats to human health within a global public health framework.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 201 Public Health from Cells to Society I
3 cr. Undergraduate.
Introduces public health as a holistic interdisciplinary field spanning cell to society. Emphasizes active learning about current public health problems from multilevel and lifecourse perspectives.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 202 Public Health from Cells to Society II
3 cr. Undergraduate.
Introduces multilevel societal drivers of health inequities over the lifecourse. Actively explores how social inequality gets under the skin to influence current public health problems.
Prerequisites: none.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 302 Health and Disease: Concepts and Contexts
3 cr. Undergraduate.
Concepts of health and disease across social, historical, political, and cultural contexts, with particular attention to the workings of race, gender, and sexuality.
Prerequisites: jr st & satisfaction of OWC-B.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 303 Climate Change, the Environment and Human Health
3 cr. Undergraduate.
Acquire knowledge about and be able to identify ways in which climate change adversely affects human health globally, nationally and locally.
Prerequisites: soph st; or cons instr.
General Education Requirements: NS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 306 Adolescent Health & Development
3 cr. Undergraduate.
A public health perspective on adolescent development and health/mental health promotion Readings, assignments and activities focus on drug use, sexuality, obesity, trauma, depression and violence.
Prerequisites: Psych 101(P) or PH 101(P) or cons instr.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
PH 319 Introduction to Health Disparities
3 cr. Undergraduate.
An introduction to health inequalities as they pertain to racial and ethnic populations in the U.S. and an overview of key determinants of population health.
Prerequisites: none.
Last Taught: Spring 2020, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 327 Foundations for Action in Public Health
3 cr. Undergraduate.
History, perspectives, and theoretical foundations of taking action and making change in public health and related disciplines.
Prerequisites: sophomore standing; PH 101(P); satisfaction of GER OWC Part A.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 345 Green fish, green worms & more: animal models and their applications
3 cr. Undergraduate.
An introduction to the field of applied public health biology where animal models are being utilized to determine how environmental contaminants influence human health.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 346 Environmental Health and Disease
3 cr. Undergraduate.
Investigates how the environment and/or environmental factors impact human health and population health with an emphasis on the development origins of disease.
Prerequisites: Bio Sci 102(P) & PH 142(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 355 Public Health Research Methods I
3 cr. Undergraduate.
Introduction to public health qualitative and quantitative research methods and considerations for conducting ethical public health research.
Prerequisites: KIN 270(P) or MthStat 215(P); HCA 307(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 375 Topics in Public Health:
1-3 cr. Undergraduate.
Topics of current interest in Public Health for undergraduates.
Prerequisites: none.
Course Rules: May be retaken w/ chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 408 Comparative Health Systems: A Social Determinants Approach
3 cr. Undergraduate.
Building on a conceptual foundation and diverse examples, introduces the US and international healthcare systems, and their role in improving population health and health equity.
Prerequisites: jr st & POL SCI 103(P), 104(P), 175(P), or 210(P).
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 410 True Lies: Consuming and Communicating Quantitative Information
3 cr. Undergraduate.
Develops quantitative critical thinking skills, from elementary statistics to causal inference and data visualization. Examines how data are used in health-related sciences and mass-media reports.
Prerequisites: Kin 270(P) or MthStat 215(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PH 427 Strategies for Action in Public Health
3 cr. Undergraduate.
In-depth study of assessment and planning methods, theory application, and interdisciplinary community-engaged approaches and strategies for taking action to promote population health and health equity.
Prerequisites: PH 327(P) & satisfaction of OWC-B.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 428 Program Implementation & Evaluation for a Healthy Society
3 cr. Undergraduate.
Introduces concepts and methods for developing strategies of implementation and evaluation of health programs. Fundamental knowledge and skills for implementing and evaluating health promotion programs.
Prerequisites: PH 427(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PH 455 Public Health Research Methods II
3 cr. Undergraduate.
Application of qualitative and quantitative methods, interpretation of findings and communication of results in public health research.
Prerequisites: PH 355(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 467 History of Scientific Reasoning in Global Public Health and Epidemiology
3 cr. Undergraduate.
Introduction to the historical development of public health and epidemiology, and how historical and social contexts shape scientific theories of disease distribution and determinants.
Prerequisites: HCA 307(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PH 478 Public Health Research Using Social Media
3 cr. Undergraduate.
Hands-on research and discussion seminar in which students examine a selected issue tied to social media and public health.
Prerequisites: PH 455(P).
Current Offerings: https://catalog.uwm.edu/course-search/

PH 600 Public Health Integrative Experience (Service Learning)
3 cr. Undergraduate.
Culmination of public health major. Integrates and applies core public health competencies through an experiential service learning placement in a community organization, and seminar-style discussions.
Prerequisites: sr st.; declared PH major; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 699 Independent Study
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course.
Prerequisites: cons instr.
Last Taught: Fall 2019, Spring 2016, Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 700 Structures of Inequality and Population Health
3 cr. Graduate.
Foundations of public health, critical social theory, and social justice praxis, which provide essential interdisciplinary tools for analyzing sociostructural processes and advancing social and health equity.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 701 Public Health Principles and Practice
3 cr. Graduate.
Examination of fundamental principles designed to improve the health of the public, public health theories, domains, and practices.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 702 Introduction to Biostatistics
3 cr. Graduate.
Development and application of statistical reasoning and methods in addressing, analyzing and solving problems in public health. Includes lab section with introduction to SAS, including macros and core statistical analysis functions.
Prerequisites: grad st; Math 116 with B or better, or equivalent, or cons instr
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 703 Environmental Health Sciences
3 cr. Graduate.
Survey of effects environment has on humans, and effects humans have on environment, emphasis on toxicology and infectious disease.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PH 704 Principles and Methods of Epidemiology
3 cr. Graduate.
Quantitative study of patterns and determinants of health in human populations applying biomedical and social epidemiology perspectives. Problem-based lab includes surveillance, measurement, study design, and causal inference applications.
Prerequisites: grad st, PH 702(C) or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 705 Principles of Public Health Policy and Administration
3 cr. Graduate.
The role of policy in influencing population health, policies that promote public health, the policymaking process, and the planning and administration of health systems.
Prerequisites: grad st, PH 704(R)
Current Offerings: https://catalog.uwm.edu/course-search/

PH 706 Perspectives on Community & Behavioral Health
3 cr. Graduate.
Philosophical underpinnings, conceptual frameworks, and strategies for the application of behavioral and social science concepts to the goals of public health.
Prereq: grad st
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 707 Introduction to Statistical Computing
1 cr. Graduate.
Introduction to statistical methods as implemented in SAS, including macros and core statistical analysis functions.
Prerequisites: grad st; PH 702(C) or cons instr
Last Taught: Spring 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 708 Health Systems and Population Health
3 cr. Graduate.
Using fundamental concepts of health systems design, international comparisons, and case studies, this course demonstrates strategies through which health systems could improve health and reduce inequities by addressing social vulnerabilities.
Prerequisites: grad st
Last Taught: Fall 2019, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 709 Public Health Informatics
3 cr. Graduate.
Overview of the rapidly emerging and evolving field of public health informatics - active learning and exposure to new and relevant public health informatics methods, applications, and tools.
Prerequisites: grad st
Last Taught: Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 710 Seminar in Biostatistics and Bioinformatics
1 cr. Graduate.
This course provides general approaches and collection of biostatistics and bioinformatics methods and practice used in public health.
Prerequisites: gr st or consent of instructor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 711 Intermediate Biostatistics
3 cr. Graduate.
Introduction to modern multivariable statistical analysis, based on generalized linear models. Topics include linear regression, logistic regression, one-way and two-way ANOVA, longitudinal analysis, missing data, and mixed models.
Prerequisites: grad st; PH 702(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 712 Probability and Statistical Inference
3 cr. Graduate.
Introductory graduate-level course that provides students with a mathematical treatment and understanding of key concepts in probability and distribution theory and statistical inference, and their applications in public health.
Prerequisites: grad st; Math 231 (P) & 232 (P) or equivalent, or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 713 Analyzing Observational and Experimental Data
3 cr. Graduate.
Analyze data from both experiments and observational studies within a causal inference framework as it applies to public health. Covers randomization, confounding, blocking, ANOVA, counterfactuals, selection bias, and measurement error.
Prerequisites: grad st; PH 704(C), PH 711 (C) or PH 759 (C) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 714 Statistical Genetics and Genetic Epidemiology
3 cr. Graduate.
Introduction to statistical methods for the analysis of family and population-based genetic data, including methods that can be used in linkage analysis, family-based and population-based association studies.
Prerequisites: grad st; PH 702(P) and PH 711(P) or cons instr
Last Taught: Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 715 Applied Categorical Data
3 cr. Graduate.
Data analysis techniques for various kinds of categorical data for public health related examples using SAS.
Prerequisites: grad st; PH 711(P) and PH 712(P) or cons instr
Last Taught: Fall 2019, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 716 Applied Survival Analysis
3 cr. Graduate.
This course covers basic concepts and techniques in the statistical analysis of survival data.
Prerequisites: Grad St; PH711(P) (or PH759(P)) and PH712(P); or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 717 Applied Longitudinal Data Analysis
3 cr. Graduate.
This course will cover data analysis techniques for longitudinal data with focus on application in public health with related examples using SAS.
Prerequisites: PH 711 and PH 712; cons instr.
Last Taught: Fall 2018, Fall 2016, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 718 Data Management and Visualization in R
3 cr. Graduate.
This course covers basic concepts and techniques for statistical programming with the R computing language.
Prerequisites: PH711; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 719 Social Justice in Public Health
3 cr. Graduate.
This course is designed to introduce you to the major social variables (e.g., socioeconomic status, race, poverty, social support, neighborhood environment) that affect public health.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PH 720 Special Topics in Biostatistics:
1-3 cr. Graduate.
Survey of an area in Biostatistics. Specific credits and add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 721 Introduction to Translational Bioinformatics
3 cr. Graduate.
Review bioinformatics knowledge and analytical skills, high-throughput technologies that produce various omic data, along with the methodologies to analyze and interpret different layers of information.
Prerequisites: grad st; PH 711(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 722 An Introduction to Bayesian Statistics
3 cr. Graduate.
In parallel to classical statistical frequentist approach, Bayesian statistics serves another way to make statistical inference, which not only rely on the sample information collected, but also on external prior knowledge.
Prerequisites: PH 702(P); PH 711(P); PH 712(P); and PH 718(P).
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 723 Design, Conduct and Analysis of Clinical Trials
3 cr. Graduate.
Introduction to the design, conduct and analysis of phase I-IV clinical trials, with an emphasis on phase III trials and ethical issues in clinical research.
Prerequisites: grad st; PH 711 (P), or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 725 Theories and Models of Health Behavior
3 cr. Graduate.
Examine theories of health behavior targeted to each level of the social ecological model, including historical and public health context. Assess utility of these theories in various domains.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PH 726 Community Health Assessment
3 cr. Graduate.
Introduction to the concepts and techniques of community health assessment; conducting and critically analyzing community assessments.
Prerequisites: grad st; PH 701(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 727 Program Planning & Implementation in Public Health
3 cr. Graduate.
Systematic approach to planning and implementing public health programs, examining program monitoring, methods of impact assessment, and measuring efficiency.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 728 Program Evaluation in Public Health
3 cr. Graduate.
Students design and present research and evaluation plans, receive guidance on developing conceptual frameworks and hypotheses, collecting and analyzing data, and developing program evaluation plans.
Prerequisites: grad st; PH 702(P) or cons inst
Current Offerings: https://catalog.uwm.edu/course-search/

PH 729 Survey Research Methods in Public Health
3 cr. Graduate.
The application of survey methods with emphasis on sampling, survey design and planning, and data collection procedures.
Prerequisites: grad st; PH 702(P) or cons inst
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 732 Youth Mental Health Practice for Non Mental Health Professionals
3 cr. Graduate.
Examination of mental health principles and practices from a public health professional's perspective, including ethical guidelines, necessary interpersonal skills, and mental health screenings and referrals to services.
Prerequisites: grad st
Last Taught: Summer 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 740 Special Topics in Public Health:
1-3 cr. Graduate.
Topics of current interest in public health.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to 10 cr max.
Last Taught: Spring 2020, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 741 Environmental Public Health Microbiology
3 cr. Graduate.
Environmental health microbiology is the study of microbial processes in water, land, and food that affect human health.
Prerequisites: grad st; completed minimum of one undergraduate microbiology course.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 743 Environmental Risk Assessment
3 cr. Graduate.
Risk assessment practices from an environmental health perspective, complexities and challenges of regulation, management, and mitigation of risks for both human and ecosystem health.
Prerequisites: grad st; PH 702(P) & PH 703 (P) or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 744 Environmental Toxicology
3 cr. Graduate.
This course will cover the occurrence, fate and transport, and toxic action of natural and synthetic chemicals encountered in the air, water, and soil.
Prerequisites: grad st; CHEM 100 (or equivalent) with B or better, and BIO SCI 150 (or equivalent) with B or better, or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 745 Developmental Toxicology
3 cr. Graduate.
An introduction to the field of developmental toxicology and how environmental contaminants influence vertebrate development, including humans.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 750 Seminar in Environmental Health Sciences
1-3 cr. Graduate.
Survey of an area in environmental health. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered. Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 752 Public Health and Mental Health
3 cr. Graduate.
Understanding mental health and mental illness from a public health perspective; designed for an interdisciplinary audience of students, researchers and practitioners.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2018, Fall 2017, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 758 Social Epidemiology
3 cr. Graduate.
Foundations of social epidemiology, including key concepts, theoretical frameworks, and methods for studying social and structural determinants of population health and health inequity.
Prerequisites: grad st; PH 700(P), PH 702(P), and PH 704(P); or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 759 Intro to Regression for Understanding the SDOH
3 cr. Graduate.
Using STATA on real data to build regression models, perform diagnostics, and interpret results. Utilize social theory to put results into context.
Prerequisites: grad st; PH 700(P), PH 702(P), and PH 704(P), or cons inst.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 761 Epidemiology Field Methods
3 cr. Graduate.
Prepares students to conduct epidemiologic field studies. Introduction of reviewing literature, designing questionnaires, developing surveillance systems, conducting emergency outbreak investigations, applying for IRB approval, and public relations.
Prerequisites: grad st; PH 700(P), 702(P), and PH 704(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 762 Environmental Epidemiology
3 cr. Graduate.
Expands upon basic epidemiological principles to tackle current problems in studies of health impacts of contaminants in air, water, food supply, consumer products, and indoor spaces, emphasizing a cross-disciplinary approach.
Prerequisites: grad st; PH 703(C) and PH 704(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 763 Epidemiology for Equity
3 cr. Graduate.
Students will integrate epidemiology methods with the principles, methods, and skills of participatory action research aimed at structural change to promote social and/or environmental justice and health equity.
Prerequisites: grad st; PH 700(P), 702(P), PH 704(P), and PH 790 (C); or consent of instructor
Current Offerings: https://catalog.uwm.edu/course-search/

PH 768 Cancer Epidemiology
3 cr. Graduate.
The course will provide an introduction to cancer epidemiology and prevention evaluating methods to study cancer etiology and survival with a particular focus on understanding cancer disparities.
Prerequisites: grad st; PH 702(P) and PH 704(P); or cons instr grad st; PH 702(P) and PH 704(P); or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 769 Critical Perspectives on Nutritional Epidemiology and the Food System
3 cr. Graduate.
This course offers a synthesis of nutritional epidemiological methods and food systems perspectives to build students critical understanding of diets, nutrition, and their public health implications.
Prerequisites: grad st; PH702(P), PH704(P), and PH705(P); or consent of instructor
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 774 Violence and Health
3 cr. Graduate.
This course examines relationships between violence and health from an interdisciplinary perspective in order to develop analytical, practical, and self-reflexive skills for intervening in violence and promoting health equity.
Prerequisites: grad st
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 775 Mechanisms of Infectious Disease
2 cr. Graduate.
Molecular and cellular means by which microorganisms facilitate infection, withstand or evade immune response, induce damage to host, and ensure transmission to human populations.
Prerequisites: grad st; LC & LA course in medical microbiology
Course Rules: C L Sci 775 & PH 775 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2016, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 776 Qualitative Approaches in Public Health Policy and Administration
3 cr. Graduate.
Introduces students to foundational approaches to qualitative research for use in public health policy & administration. It provides opportunities to practice foundational data collection, research analysis, reflexivity, & research design skills.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PH 777 Quantitative Research Methods for PH Policy & Administration
3 cr. Graduate.
Introduces quantitative methods commonly used in public health policy and administration decision-making, skills to analyze quantitative research and to apply knowledge generated from research to the public health policy and administration context.
Prerequisites: graduate standing; PH 702(P), completion or concurrent enrollment in PH 704, or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 779 Public Health Policymaking and Policy Analysis
3 cr. Graduate.
Introduces students to key frameworks for public health policymaking and policy analysis. Students apply concepts to a real world public health problem of their choice.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 780 Seminar in Public Health Policy and Administration
1-3 cr. Graduate.
Survey of an area in Public Health Policy and Administration. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.
Prerequisites: grad st
Current Offerings: https://catalog.uwm.edu/course-search/

PH 781 Public Health Administration
3 cr. Graduate.
This course introduces basic concepts, best-practice leadership, and management principles with the emphasis on organizational behavior in public health settings.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 784 Social and Economic Policy as Health Policy
3 cr. Graduate.
This course examines how social and economic policies, including education, income re-distribution, and housing shape population health.
A broad overview of the social determinants of health is introduced/ reviewed and current knowledge of the impact.
Prerequisites: grad st; a course covering multiple regression, including PH 711(P), PH 759(P), or cons inst.
Last Taught: Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 785 Principles of Public Health Economics
3 cr. Graduate.
The course introduces the application of microeconomic theories and models to explain major topics and trends in public health and health care settings.
Prerequisites: grad st. or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 790 Field Experience in Public Health
1-6 cr. Graduate.
Apply skills learned in the classroom to real-world public health problems
in a mentored field placement, engaging both faculty and site preceptors.
Prerequisites: grad st; PH 701(P), PH 702(P), PH 703(P), PH 704(P),
PH 705(P), PH 706(P), and PH 707(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 791 Leadership in Public Health
1 cr. Graduate.
Complements the Field Experience. Presentations on leadership,
negotiation, and inter-professional teamwork, participation in case
workshops, and written papers foster the integration of core concepts,
critical thinking and reflection skills.
Prerequisites: graduate standing; PH 790(P) or PH 790(C); or consent of
instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 800 Capstone in Public Health
2 cr. Graduate.
Application of acquired public health knowledge, experience and
competencies in developing a public health project that demonstrates
readiness for professional practice. Satisfactory/Unsatisfactory only.
Prerequisites: grad st; PH 790(P) or cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 801 Seminar in Public Health Research
3 cr. Graduate.
Immersion in interdisciplinary collaborative approaches to public health
research.
Prerequisites: grad st; 1 course in stats/biostats and 1 course in research
methods; or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 804 Advanced Epidemiology
3 cr. Graduate.
Advanced training in epidemiological concepts, principles and methods in
the context of population health and health equity.
Prerequisites: grad st; PH758, PH823, or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 808 Writing a Federal Grant in the Public Health Sciences
3 cr. Graduate.
This course is designed to provide students a hands-on experience with
all aspects of preparation of a hypothesis-driven, grant application to a
federal agency such as the NIH or NSF.
Prerequisites: grad st. admis to a PhD program.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 811 Causal Inference
3 cr. Graduate.
This course will cover a variety of approaches to define and estimate
causal effects, as well as the sensitivity analysis for both clinical trial and
observational studies.
Prerequisites: grad st; MthStat 762(C) or PH 911 (C) or cons instr
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 812 Statistical Learning & Data Mining
3 cr. Graduate.
Analysis of data using modern data mining techniques.
Prerequisites: grad st; MathStat 761 and PH 718; or consent of instructor
Last Taught: Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 813 Practice of Biostatistical Consulting
3 cr. Graduate.
This course teaches the elements of statistical consulting, appropriate
statistical analysis approaches, and how to interpret findings and
effectively communicate with clients.
Prerequisites: grad st; PH 711, PH 713, & PH 718; or cons instr.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 818 Statistical Computing
3 cr. Graduate.
This course will cover the theory and application of common algorithms
used in statistical computing.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as a repeat of Soc Wrk 819.
Last Taught: Spring 2014, Spring 2013, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 819 Social and Environmental Justice in Public Health
3 cr. Graduate.
Social and environmental justice perspective on public health problems
and concerns.
Prerequisites: grad st
Course Rules: Jointly offered w/ & counts as a repeat of Soc Wrk 819.
Last Taught: Spring 2014, Spring 2013, Fall 2010, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 820 Maternal and Child Health Foundations, Policy and Practice
3 cr. Graduate.
The foundations of MCH, historical context, financing, challenges, and
opportunities in advancing MCH at state, national and international level
including the integration of men.
Prerequisites: grad st; PH 702(P), 704(P) or cons instr
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 821 Advanced Survey of Environmental Health
3 cr. Graduate.
The role of environmental factors in determining human health, and
human processes that degrade this interaction.
Prerequisites: graduate standing.
Course Rules: Previously EOH 821.
Last Taught: Fall 2019, Spring 2019, Fall 2013, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 822 Molecular & Cellular Basis of Environmental Disease
3 cr. Graduate.
Examines how environmental agents cause changes in gene expression,
structure, and activity leading to human disease; and resulting alterations
in normal cellular processes and physiological consequences.
Prerequisites: graduate standing.
Course Rules: Previously EOH 822.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 823 Applied Analysis of Binary Outcomes in Public Health Research
3 cr. Graduate.
Apply principles of epidemiology, statistics, and study design in analyzing a public health dataset of choice, covering confounding, modification, bias, missing data, and interpretation in light of limitations.
Prerequisites: PH702 (P), PH 704(P), and doctoral standing; or consent of instructor.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 825 Social and Behavioral Science in Public Health
3 cr. Graduate.
Overview of the contribution and use of social and behavioral sciences approaches in public health research, policy, planning/evaluation, practice, and interventions.
Prerequisites: grad st
Last Taught: Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 826 Principles of Community Intervention Research
3 cr. Graduate.
Seminar covering classics in community-based public health research and the development of conceptual and methodological skills in community engagement.
Prerequisites: grad st.
Course Rules: Counts a repeat of PH 740 with similar topic.
Last Taught: Fall 2019, Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 827 Research Design in Community and Behavioral Health Promotion
3 cr. Graduate.
Examination of experimental, quasi-experimental, and nonexperimental study designs, focus groups, and coding with qualitative software.
Prerequisites: grad st; admis to doctoral prog. PH 801(P) & 702(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 831 Community Engagement and Participatory Research Approaches in Public Health
3 cr. Graduate.
Effective approaches to engaging communities in health interventions and addressing health disparities.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 859 Racial/Ethnic Health Disparities in the United States
3 cr. Graduate.
The course will analyze studies of racial/ethnic health disparities, with a focus to include multi-level and temporal perspectives to better understand the social context in which the determinants of racial/ethnic health are embedded.
Prerequisites: grad st; a course covering multiple regression, including PH 711(P), PH 759(P), or cons inst.
Course Rules: Counts as repeat of PH 740 w/similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 864 Research Ethics in Epidemiology and Public Health
3 cr. Graduate.
Training in research ethics and ethical analysis in the context of public health and epidemiology research. Covers all topics outlined in the NIH's Responsible Conduct of Research Training.
Prerequisites: grad st; PH 801(P), PH 704(P), or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 865 Critical Methodologies for Health Equity Research
3 cr. Graduate.
Analyzes interdisciplinary critical methodologies for researching health inequities across diverse axes of power and considers how to integrate these methodologies into epidemiologic and public health research to advance health equity.
Prerequisites: grad st; PH 700(P), and PH 758(P) or PH 859(P), or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 868 Epidemiologic Links Between Infectious and Chronic Disease
3 cr. Graduate.
Discussion of social patterning of infection, epidemiologic and physiologic links between infections and chronic disease, and methodological considerations in the evaluation of such associations.
Prerequisites: grad st; PH702(P), PH704(P), and PH759(P) or PH711(P); or consent of instructor
Current Offerings: https://catalog.uwm.edu/course-search/

PH 870 Epidemiology in Health Policy and Advocacy
3 cr. Graduate.
Using epidemiologic evidence to inform public health policy, through engagement with the policy process, communication with policymakers, and evidence-based appraisal of policy alternatives and advocacy for sound policy.
Prerequisites: grad st; PH 779(P), PH804; or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

PH 895 Research and Thesis for MS in Biostatistics
3 cr. Graduate.
Research and writing of the master's thesis under the supervision of the major professor.
Prerequisites: grad st and cons instr.
Course Rules: Repeatable to 6 cr max.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 904 Survey of Analytic Methods for Epidemiology
3 cr. Graduate.
Survey of advanced analytic approaches to the conduct of epidemiologic research in the pursuit of causal inference.
Prerequisites: grad st; PH804 or permission of instructor.
Last Taught: Fall 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
PH 911 Generalized Linear Models
3 cr. Graduate.
This course will cover theory of advanced biostatistics models with
focus on generalized linear models and will also cover generalized
estimating equation, generalized linear mixed models. We will emphasize
implementation in R.
Prerequisites: grad st; PH 711(P), MthStat 762(P), and PH 718(P) or cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 919 Core Seminar in Community and Behavioral Health Promotion
1-3 cr. Graduate.
These seminars are intended as professional development to prepare
students for successful careers in the area of Community and Health
Behavior Promotion.
Prerequisites: Grad St
Current Offerings: https://catalog.uwm.edu/course-search/

PH 960 Core Doctoral Seminar in Epidemiology
3 cr. Graduate.
This advanced doctoral seminar discusses practical aspects of an
epidemiology career, from developing a research question and study, to
managing a grant, writing results and reporting results to the press.
Prerequisites: grad st; PH 758 (P), PH 823 (P), PH 779 (P) and PH 801(P),
or cons instr
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 990 Research and Dissertation
1-8 cr. Graduate.
Original research in any public health discipline
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

PH 999 Independent Study
1-3 cr. Graduate.
Independent study on a topic not available as a regular course, directed
by a member of the graduate faculty.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 101 Introduction to World Religions
3 cr. Undergraduate.
Basic concepts of world religions; broad overview of various religious
traditions in ancient and modern configurations.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 106 Anishinaabe Ethnobotany: Plants in Anishinaabe
Philosophy
3 cr. Undergraduate.
Anishinaabe philosophical and religious beliefs incorporating botanical
knowledge.
Prerequisites: none.
Course Rules: AIS 106 & ReligSt 106 are jointly offered; they count as
repeats of one another.
General Education Requirements: CD
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 125 Society and Religion in the Ancient Mediterranean and Near
East
3 cr. Undergraduate.
Using historical evidence (written texts, material remains) to examine
religion and social organization in ancient Mesopotamia, Egypt, Israel/
Canaan, Minoan Crete, Mycenaean and archaic Greece.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes
each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First-Year Sem Course (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 193 First-Year Seminar:
3 cr. Undergraduate.
Specific social science topics are announced in the Schedule of Classes
each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First-Year Sem Course (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff
member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and
Assistant Dean for Student Academic Services.
Course Rules: Retakable to 6 cr max.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 225 Society and Religion in the Ancient Mediterranean and Near
East
3 cr. Undergraduate.
Using historical evidence (written texts, material remains) to examine
religion and social organization in ancient Mesopotamia, Egypt, Israel/
Canaan, Minoan Crete, Mycenaean and archaic Greece.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 250 Selected Topics in Religious Studies:
3 cr. Undergraduate.
Focus on a particular religion or religious issue.
Prerequisites: Retakable w/chg in topic to 9 cr max.
General Education Requirements: OWCB
Current Offerings: https://catalog.uwm.edu/course-search/
RELIGST 289 Internship in Religious Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hours research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Program
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: none. Additional prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 309 Early Christianity
3 cr. Undergraduate.
The early Christian period: what people believed and why; how Christianity was understood, practiced, and integrated into people's lives. Emergence from, contact with other religious cultures.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in Hist 370 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 350 Advanced Topics in Religious Studies:
3 cr. Undergraduate.
Advanced study of a particular religion or religious issue.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 351 Anthropological Theories of Religion
3 cr. Undergraduate.
Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.
Prerequisites: jr st.
Course Rules: Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 361 Russian and Slavic Folklore
3 cr. Undergraduate.
Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures. Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another. Prereq: jr st.
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 395 Seminar in the Study of Religion: Theories of Religion
3 cr. Undergraduate.
Critical inquiry into the questions of and about religion: what is religion, and how do we study it?
Prerequisites: jr st.
Last Taught: Spring 2020, Spring 2019, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 451 Religious Practices and Values in Local and Global Communities
3 cr. Undergraduate.
Religious practices and values of six major world religions are examined in order to promote understanding and cooperation within a diverse community.
Prerequisites: jr st.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 489 Internship in Religious Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: jr st, add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
RELIGST 544 Religious Giving in Anthropological Perspective
3 cr. Undergraduate.
Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare.
Prerequisites: jr st.
Course Rules: Anthro 544 & ReligSt 544 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of ReligSt faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RELIGST 751 Religious Practices and Values in Local and Global Communities
3 cr. Graduate.
Religious practices and values of six major world religions are examined in order to promote understanding and cooperation within a diverse community.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

Russian (RUSSIAN)

RUSSIAN 101 First-Semester Russian
5 cr. Undergraduate.
A systematic introduction to the Russian language.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 102 Second-Semester Russian
5 cr. Undergraduate.
Continuation of Russian 101.
Prerequisites: Russian 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 199 Independent Study
1-4 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: soph st, 2.0 GPA, consent of instructor, and Assistant Dean for Student Academic Services.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 201 Third-Semester Russian
4 cr. Undergraduate.
Review of grammar; practice in speaking, reading, and translation with integrated laboratory work.
Prerequisites: Russian 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 202 Fourth-Semester Russian
4 cr. Undergraduate.
Continuation of Russian 201.
Prerequisites: Russian 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 210 Russian Literacy for Native and Heritage Speakers
4 cr. Undergraduate.
Fundamentals of written Russian for native and heritage speakers: alphabet, orthography, grammar, style. Designed to develop language skills at the level of fourth-semester Russian.
Prerequisites: none.
Course Rules: Open only to native and heritage speakers of Russian with little or no formal schooling in the former Soviet Union. Generates L&S credits for demonstrated equivalent preparation (12 retro cr).
Last Taught: Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, & Spanish 213.
Current Offerings: https://catalog.uwm.edu/course-search/
RUSSIAN 235 Survey of Nineteenth-Century Russian Literature in Translation
3 cr. Undergraduate.
Selected major authors representing main trends.
Prerequisites: None.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 236 Survey of Twentieth-Century Russian Literature in Translation
3 cr. Undergraduate.
Selected pre- and post-revolutionary writers and movements.
Prerequisites: None. One course in 100-level lit-in-trans or 200-level English lit advisable.
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 245 Russian Life and Culture
3 cr. Undergraduate.
Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 260 Topics in Slavic Culture:
1 cr. Undergraduate.
Exploration of a topic related to Slavic or folklore.
Prerequisites: None.
Course Rules: Counts as repeat of Russian 299 w/similar topic. May be retaken to 3 cr max.
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 277 Russian Discussion Section:
1-2 cr. Undergraduate.
Discussion in Russian, designed to broaden perspectives, improve language skills.
Prerequisites: Russian 202(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 289 Internship in Russian, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Russian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: Intro course in Russian; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: Acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2016, Summer 2012, Fall 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: None; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016, Fall 2015, Spring 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 301G Advanced Russian Reading and Conversation:
3 cr. Undergraduate/Graduate.
Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.
Prerequisites: Jr st; Russian 202(P), 210(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 302G Advanced Russian Reading and Conversation:
3 cr. Undergraduate/Graduate.
Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.
Prerequisites: Jr st; Russian 202(P), 210(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 304 Contemporary Russian Language:
3 cr. Undergraduate/Graduate.
Development of practical communication skills. Focus varies each semester.
Prerequisites: Jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equiv preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 307 Contemporary Russian Language:
3 cr. Undergraduate/Graduate.
Development of practical communication skills. Focus varies each semester.
Prerequisites: Jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equiv preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
RUSSIAN 350 Dostoyevsky and Tolstoy in Translation: Major Works
3 cr. Undergraduate.
Close readings of the masterworks of Tolstoy and Dostoevsky in historical context; consideration of their impact on Russian and Western art and social thought.
Prerequisites: jr st.
Course Rules: No knowledge of Russian req'd.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 360 Bulgakov, Pasternak and Solzhenitsyn in Translation
3 cr. Undergraduate.
Reading and discussion of the major works of three outstanding Russian writers of the 20th century, two of them recent controversial Nobel prize winners.
Prerequisites: 5 crs in lit-in-trans and/or 200-level English lit courses.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 361 Russian and Slavic Folklore
3 cr. Undergraduate.
Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures.
Prerequisites: jr st.
Course Rules: Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another.
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 391 Russian Literature and Culture in Translation:
3 cr. Undergraduate.
Topics on Russian literature and culture in their historical and cultural contexts. Influences in modern Russian culture.
Prerequisites: jr st.
Course Rules: To count toward the Russian major or minor, coursework must be done in Russian. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 419 Introduction to Translation: Russian to English
3 cr. Undergraduate.
Translation process as combination of linguistic, cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents.
Prerequisites: jr st; grade of B or better in 300-level or above Russian language course.
Last Taught: Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 429 Seminar in Advanced Russian Translation: Russian to English
3 cr. Undergraduate.
Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.
Prerequisites: jr st; grade of B or better in Russian 419(P).
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 489 Internship in Russian, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Russian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Russian; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
RUSSIAN 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

RUSSIAN 699 Supervised Individual Reading
1-6 cr. Undergraduate.
Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

Scandinavian Studies (SCNDVST)

SCNDVST 101 First-Semester Swedish
4 cr. Undergraduate.
Introductory course for students who have not studied Swedish previously. Oral practice, grammar, and reading.
Prerequisites: none.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 102 Second-Semester Swedish
4 cr. Undergraduate.
Continuation of ScndvSt 101 (German 180).
Prerequisites: ScndvSt 101 (German 180)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 192 First-Year Seminar
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 203 Third-Semester Swedish
3 cr. Undergraduate.
Continuation of ScndvSt 102 (German 181).
Prerequisites: ScndvSt 102(German 181)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2016, Summer 2016, Fall 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 204 Fourth-Semester Swedish
3 cr. Undergraduate.
Continuation of ScndvSt 203 (German 280).
Prerequisites: ScndvSt 203(German 280)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 289 Internship in Scandinavian Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours research.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/
SCNDVST 297 Study Abroad: 1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: May be retaken to 6 cr max.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 299 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: none; additional prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 331 Intermediate Swedish Grammar and Writing 3 cr. Undergraduate.
Review of major structures in Swedish grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency for academic/non-academic purposes.
Prerequisites: ScndvSt 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 332 Analysis of Swedish Texts 3 cr. Undergraduate.
Authentic Swedish texts of different types with varied content and viewpoints. Overview of basic textual analysis skills; reading strategies; vocabulary and language skills.
Prerequisites: ScndvSt 204(P) or equiv; ScndvSt 331(R). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 426 Introduction to Translation: Swedish to English 3 cr. Undergraduate.
Basic skills for Swedish to English translation using authentic texts from a variety of fields; translation strategies and tools; issues in grammar and style.
Prerequisites: jr st; ScndvSt 204(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 489 Internship in Scandinavian Studies, Upper Division 1-6 cr. Undergraduate.
Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 497 Study Abroad: 1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Prerequisites: jr st; acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 499 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SCNDVST 699 Advanced Independent Study 1-3 cr. Undergraduate.
Advanced level independent work under the supervision of ScndvSt faculty or academic staff member.
Prerequisites: jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

Social Work (SOC WRK)

SOC WRK 100 Introduction to Social Work 3 cr. Undergraduate.
A survey course focussed on the development of human service institutions and occupations.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 105 Orientation for Social Welfare Students 1 cr. Undergraduate.
Prepares students to participate in UWM's educational process and to explore career choices in social welfare.
Prerequisites: fr st only.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 112 Field Observation 1 cr. Undergraduate.
Introduction to the services of a social welfare setting through placement in an approved social service, health, law enforcement, or recreational setting. Minimum of 3 hours per week.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/
SOC WRK 250 Human Behavior and the Social Environment
3 cr. Undergraduate.
A survey course in normative development from conception through aging. Focus on the interaction between biological, psychological, social, and cultural forces.
**Prerequisites:** SOC WRK 100(P) and PSYCH 101(C); or special student.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 260 Case Management in Social Work
3 cr. Undergraduate.
Introduces concepts, models, responsibilities, legal issues, and best practices in the case management role in a variety of social work settings through experiential learning.
**Prerequisites:** sophomore standing; one prior course in SOC WRK recommended.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 270 Advocacy and Empowerment
3 cr. Undergraduate.
Civics, citizenship, and the role of government in American society. Focusing on policies and social movements from both a historical and current perspective, students will investigate their impact on social work clients.
**Prerequisites:** sophomore standing; SOC WRK 100(P), SOC WRK 250(C), and SOC WRK 260(C), POL SCI 104(R).
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 291 Current Issues in Social Welfare and Social Work:
1-3 cr. Undergraduate.
Selected current issues in Social Welfare and Social Work.
**Prerequisites:** none.
**Course Rules:** May be retaken with change in topic to max of 6 cr.
**Last Taught:** UWinteriM 2013, UWinteriM 2012, UWinteriM 2011, UWinteriM 2010.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
**Prerequisites:** acceptance for Study Abroad Prog.
**Course Rules:** May be retaken with change in topic.
**Last Taught:** UWinteriM 2020, Summer 2019, UWinteriM 2019, Summer 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 300 Aged to Perfection: Introduction to the Study of Aging
3 cr. Undergraduate.
Interdisciplinary survey on aging.
**Prerequisites:** Satisfaction of OWC- Part A GER.
**General Education Requirements:** OWCB, SS
**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 306 Introduction to Social Welfare Policy
3 cr. Undergraduate.
An analysis of the relationships between poverty, welfare programs, and the society which creates and sustains them; the origins, structures, and goals of welfare programs.
**Prerequisites:** junior standing; SOC WRK 100(P), SOC WRK 250(P), and SOC WRK 270(P); or special student.
**Course Rules:** Previously SOC WRK 206.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 308 Social Work Values and Ethics
3 cr. Undergraduate.
Provides a framework for understanding, managing, and analyzing ethical dilemmas including professional boundaries utilizing the NASW Code of Ethics and an ethical decision-making process; addresses ethical decision-making within a variety of contexts and situations.
**Prerequisites:** junior standing; SOC WRK 306(C).
**Course Rules:** Not open for credit to students with credit in SOC WRK 591: Ethical and Legal Dilemmas in Mental Health.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 310 Social Work Practice I: Individuals and Families
3 cr. Undergraduate.
Introduction to generalist Social Work practice methods. Experiential exercises designed to provide students with basic interviewing skills.
**Prerequisites:** junior standing; SOC WRK 100(P), SOC WRK 250(P), and SOC WRK 306(C); satisfaction of OWC-A GER.
**Course Rules:** May be retaken w/chg in topic to 9H cr max.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 315 Social Work Practice II: Groups
3 cr. Undergraduate.
Introduction to social work methods as applied to small groups. Lab exercises designed to provide students with basic interviewing skills.
**Prerequisites:** junior standing; SOC WRK 306(C); satisfaction of OWC-A GER; and grade of B or higher in SOC WRK 310(P).
**Course Rules:** Not open for credit to students with credit in SOC WRK 297.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 380 Honors Seminar in Social Work:
3 cr. Undergraduate.
A seminar in an interdisciplinary topic or on the broader implications of a faculty member's research.
**Prerequisites:** soph st; Honors 200(P); cons Honors College Dir.
**Course Rules:** May be retaken w/chg in topic to 9H cr max.
**General Education Requirements:** SS
**Last Taught:** Spring 2016, Fall 2014.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 410 Social Work Practice II: Groups
3 cr. Undergraduate.
Introduction to social work methods as applied to small groups. Lab provides experiential exercises in group interactions, needs, and leadership roles.
**Prerequisites:** junior standing; admitted to Social Work major; satisfaction of OWC-A GER; and grade of B or higher in SOC WRK 310(P).
**General Education Requirements:** OWCB
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SOC WRK 421 Field Education & Integrated Field Seminar I
5 cr. Undergraduate.
1st of two consecutive semester practicum, and weekly field seminar which provides an opportunity to develop and demonstrate social work skills. 256 hours per semester.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
SOC WRK 422 Field Education & Integrated Seminar II
5 cr. Undergraduate.
(Second of a two semester required sequence). Continuation of Soc Wrk 421.
Prerequisites: Grade of B or better in Soc Wrk 410(P) and Soc Wrk 421(P); 427(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 423 Field Education III
5 cr. Undergraduate.
(Elective field course). Continuation of Soc Wrk 421 & 422.
Prerequisites: sr st; Soc Wrk 422(P), 427(P); cons Field Office.
Last Taught: Spring 2020, Spring 2018, Fall 2014, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 427 Social Work Practice III: Communities and Organizations
3 cr. Undergraduate.
Introduction to social work methods as applied to community problems. Lab provides experiential exercises in community organization and other techniques of social change.
Prerequisites: grade of B or better in SOC WRK 410(P) and SOC WRK 421(P); SOC WRK 422(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 497 Study Abroad:
1-6 cr. Undergraduate/Graduate.
Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 497G Study Abroad:
1-6 cr. Undergraduate/Graduate.
Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 562 Child and Family Services
2 cr. Undergraduate/Graduate.
Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems.
Prerequisites: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 562G Child and Family Services
2 cr. Undergraduate/Graduate.
Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems.
Prerequisites: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 564 Social Services for the Aging
3 cr. Undergraduate/Graduate.
Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly.
Prerequisites: junior standing and satisfaction of the Oral & Written Communication Competency (OWC-B); one prior course in SOC WRK recommended; or graduate standing.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 564G Social Services for the Aging
3 cr. Undergraduate/Graduate.
Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly.
Prerequisites: junior standing and satisfaction of the Oral & Written Communication Competency (OWC-B); one prior course in SOC WRK recommended; or graduate standing.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 580 An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on relationship-building, interactive and developmental approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 580G An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on relationship-building, interactive and developmental approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 581 Youth Work Practice
3 cr. Undergraduate/Graduate.
Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.
Prerequisites: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.
Course Rules: Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/
SOC WRK 581G Youth Work Practice
3 cr. Undergraduate/Graduate.
Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.
Prerequisites: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.
Course Rules: Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 591 Special Topics: Social Welfare and Social Work
1-3 cr. Undergraduate.
Selected topics in social welfare and social work. Specific credits and additional prerequisites announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st; satisfy English competency; one prior course in Soc Wrk recom.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 592 Independent Research
1-3 cr. Undergraduate.
Participation in an independent research project under faculty supervision.
Prerequisites: jr st; satisfy English competency; GER math requirement; 2.5 gpa; Soc Wrk 662(P), writ cons instr & dir Soc Wrk prog.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 599 Independent Reading
1-3 cr. Undergraduate.
Intensive readings in fields related to student's preparation and training, under the supervision of a faculty member.
Prerequisites: sr st; satisfy English competency; 2.5 gpa; writ cons instr & dir Soc Wrk Prog.
Course Rules: May be retaken to 6 cr max.
Last Taught: Summer 2020, Summer 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 604 Social Systems and Social Work Practice
3 cr. Undergraduate/Graduate.
Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice.
Prerequisites: jr st; admis to Soc Wrk major, Soc Wrk 310(P); or grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 604G Social Systems and Social Work Practice
3 cr. Undergraduate/Graduate.
Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice.
Prerequisites: jr st; admis to Soc Wrk major, Soc Wrk 310(P); or grad st.
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 630 Families and Poverty
2-3 cr. Undergraduate/Graduate.
Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty.
Prerequisites: jr st; one prior course in Soc Wrk recom.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 630G Families and Poverty
2-3 cr. Undergraduate/Graduate.
Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty.
Prerequisites: jr st; one prior course in Soc Wrk recom.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 650 Social Welfare and the Law
2 cr. Undergraduate/Graduate.
Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults.
Prerequisites: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 650G Social Welfare and the Law
2 cr. Undergraduate/Graduate.
Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults.
Prerequisites: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 662 Methods of Social Welfare Research
3 cr. Undergraduate/Graduate.
Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives.
Prerequisites: jr st, admis to Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P), 206(P), & 250(P); or grad st.
General Education Requirements: QLB
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 662G Methods of Social Welfare Research
3 cr. Undergraduate/Graduate.
Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives.
Prerequisites: jr st, admis to Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P), 206(P), & 250(P); or grad st.
General Education Requirements: QLB
Last Taught: Summer 2020.
Current Offerings: https://catalog.uwm.edu/course-search/
SOC WRK 665 Cultural Diversity and Social Work
3 cr. Undergraduate/Graduate.
Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society.
**Prerequisites:** jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.
**General Education Requirements:** CD, SS
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 665G Cultural Diversity and Social Work
3 cr. Undergraduate/Graduate.
Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society.
**Prerequisites:** jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.
**General Education Requirements:** CD, SS
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 680 Death and Dying
3 cr. Undergraduate/Graduate.
Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues.
**Prerequisites:** jr st; or grad st.
**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with same topic.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 680G Death and Dying
3 cr. Undergraduate/Graduate.
Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues.
**Prerequisites:** jr st; or grad st.
**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with same topic.
**Last Taught:** Summer 2020.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 685 Social Gerontology
3 cr. Undergraduate/Graduate.
Exploration of individual aging experiences and interaction with social structures and social systems.
**Prerequisites:** jr st and one prior course in Soc Wrk recom; or grad st.
**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with the same topic.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 685G Social Gerontology
3 cr. Undergraduate/Graduate.
Exploration of individual aging experiences and interaction with social structures and social systems.
**Prerequisites:** jr st and one prior course in Soc Wrk recom; or grad st.
**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with the same topic.
**Last Taught:** Fall 2019.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 690 Mindfulness and Community Building
3 cr. Undergraduate/Graduate.
Seminar for upper level undergraduate and graduate students that offers didactic and experiential insights into trauma-informed care, community building and mindfulness.
**Prerequisites:** junior standing or graduate standing.
**Course Rules:** Counts as a repeat of SOC WRK 591 or SOC WRK 791 with the same topic or "Community Building" topic.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 690G Mindfulness and Community Building
3 cr. Undergraduate/Graduate.
Seminar for upper level undergraduate and graduate students that offers didactic and experiential insights into trauma-informed care, community building and mindfulness.
**Prerequisites:** junior standing or graduate standing.
**Course Rules:** Counts as a repeat of SOC WRK 591 or SOC WRK 791 with the same topic or "Community Building" topic.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 691 Practice Methods in Social Work:
1-3 cr. Undergraduate/Graduate.
Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes.
**Prerequisites:** jr st.
**Course Rules:** May be retaken with change in topic to max of 6 cr.
**Last Taught:** Spring 2016, Spring 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 691G Practice Methods in Social Work:
1-3 cr. Undergraduate/Graduate.
Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes.
**Prerequisites:** jr st.
**Course Rules:** May be retaken with change in topic to max of 6 cr.
**Last Taught:** Spring 2016, Spring 2009.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 705 Individual Behavior and Social Welfare
3 cr. Graduate.
The development and behavior of individuals in interaction with their social contexts; implications for social welfare.
**Prerequisites:** grad st.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/

SOC WRK 708 Social Work Methods I: Individuals and Families
3 cr. Graduate.
Introduction to generalist social work practice with individuals and families, with emphasis on integration of theory and knowledge with professional practice.
**Prerequisites:** grad st; admis to MSW
**Last Taught:** Summer 2020, Fall 2019, Summer 2019, Fall 2018.
**Current Offerings:** https://catalog.uwm.edu/course-search/
SOC WRK 709 Social Work Methods II: Groups, Organizations and Communities
2 cr. Graduate.
Introduction to generalist social work practice with groups, organizations and communities, with emphasis on integration of theory and knowledge with professional practice.
Prerequisites: grad st; admis to MSW; Soc Wrk 708(C)
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 711 Direct Social Work Practice I
3 cr. Graduate.
Methods of social work intervention employed in helping individuals, families and small groups. Addresses personal, interpersonal, environmental and resource issues with emphasis on interviewing, assessing, contracting and goal setting.
Prerequisites: grad st; Soc Wrk 710(P), or BSW degree, or Soc Wrk 708(P) & 709(P); Soc Wrk 722(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 713 Community Organization, Planning and Human Service Administration I
3 cr. Graduate.
Knowledge and skill development in the activities, roles, styles, and ethical issues in community and administrative practice. Emphasis on needs assessment, planning methodologies, and change efforts.
Prerequisites: grad st; Soc Wrk 708 & 709(710) or BSW degree.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 718 Introduction to SAS Programming
3 cr. Graduate.
Fundamental instruction in programming, data management and exploratory data analysis using SAS software.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 719 Advanced SAS Programming
3 cr. Graduate.
Advanced instruction in programming, data management, and exploratory data analysis using SAS software.
Prerequisites: grad st; Soc Wrk 718(P) or cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 721 Field Instruction I
3 cr. Graduate.
Supervised social work practice in a social agency.
Prerequisites: grad st; Soc Wrk 710(P) or 708(P); 709(C) or 711(C).
Last Taught: Spring 2020, Fall 2019, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 722 Field Instruction II
3 cr. Graduate.
Supervised social work practice in a social agency.
Prerequisites: grad st; Soc Wrk 721(P) or BSW degree; Soc Wrk 713(C) or 711(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 750 Social Welfare Policy Development and Implementation
2 cr. Graduate.
Examination of policy development, implementation, and models of analysis that describe and provide analytical guides for determining the efficacy of public policy in addressing human needs.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 753 Adult Psychopathology
3 cr. Graduate.
Mental disorders and their implications for the social work profession, including assessment, intervention and prevention issues.
Prerequisites: grad st; Soc Wrk 705(P).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 754 Child and Adolescent Psychopathology
2 cr. Graduate.
Mental and behavioral disorders of children and adolescents and their implications for the social work profession, including assessment, intervention and prevention issues.
Prerequisites: grad st; Soc Wrk 705.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 765 Social Work Boundaries and Ethics in Professional Practice
2-3 cr. Graduate.
Ethical issues faced by social work practitioners in professional practice. Topics include NASW Code of Ethics, boundary issues, ethical dilemmas, and risk management.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 771 Development of the Family Over the Life Span
3 cr. Graduate.
The family as a social system as it engages in various developmental tasks throughout the life cycle and in interaction with the social context; social work implications of relevant theories and research.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
SOC WRK 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774, or Soc Wrk 774(P), or cons instr
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 791 Current Topics in Social Work:
1-3 cr. Graduate.
Variable content course with specific topics to be announced in schedule of classes.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 793 Evaluation of Practice
2 cr. Graduate.
Advanced problems and methods of research in social work practice.
Prerequisites: grad st; Soc Wrk 662(P) or equiv; Soc Wrk 721(C) or 722(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 794 Evaluation of Programs
2 cr. Graduate.
Provides students with the skills and knowledge base necessary to understand the program evaluation process as it applies to social welfare programs.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 811 Direct Social Work Practice II:
3 cr. Graduate.
A continuation of methods of social work intervention, with sections tailored to specialized concentration areas: gerontology, family and child welfare, and behavioral and physical health. Emphasis is on selection and implementation of appropriate intervention plans.
Prerequisites: grad st; Soc Wrk 711(P); 722(C).
Course Rules: Repeatable with change in topic to 6 credit max.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 813 Financial Management and Planning in Human Services
2 cr. Graduate.
This course is designed to facilitate and understanding of selected areas of planning and management in human services with an emphasis on resource development and financial management.
Prerequisites: grad st; Soc Wrk 713(C) & 915(C) or cons reg; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 818 Treatment of Co-Occurring Disorders
3 cr. Graduate.
Knowledge on assessment and treatment strategies with substance misuse and mental health issues, along with research on etiology and best practices for addressing co-occurring disorders.
Prerequisites: grad st; Soc Wrk 711(P) or 713(P)
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 819 Social and Environmental Justice in Public Health
3 cr. Graduate.
Social and environmental justice perspective on public health problems and concerns.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as a repeat of PH 819.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 820 Seminar in Social Work Practice:
2 cr. Graduate.
Critical examination of varied and specialized methodologies with emphasis on new professional directions, interdisciplinary coordination and integration of professional practice with behavioral sciences, research, and policy concerns.
Prerequisites: grad st; Soc Wrk 711(P) or 713(P)
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 821 Field Instruction III
3-4 cr. Graduate.
Second-year supervised social work practice in a social agency.
Prerequisites: grad st; SOC WRK 811(C) or SOC WRK 915(C); SOC WRK 722(P); SOC WRK 711(P) or SOC WRK 713(P).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 822 Field Instruction IV
3-4 cr. Graduate.
Advanced second-year supervised social work practice in a social agency with emphasis on integration of professional practice with methodology, behavioral sciences, research and policy concerns.
Prerequisites: grad st; SOC WRK 821(P).
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 830 Intervention Strategies for Correctional Clients
3 cr. Graduate.
A review and analysis of intervention approaches and programs used with correctional clients, both juvenile and adult, with emphasis on diversion, prevention, and rehabilitation strategies.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 831 Models of Family Therapy
2 cr. Graduate.
Introduction to the major family therapy approaches, including assessment and intervention techniques for each. Models include systemic, structural, strategic, interactional and multigenerational.
Prerequisites: grad st; Soc Wrk 811 or conc reg.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
SOC WRK 832 Social Work Practice with Couples
2 cr. Graduate.
Intensive examination of varied methodologies to effect therapeutic change in couples. Includes assessing couples' interactional patterns and formulating therapeutic strategies.
Prerequisites: grad st; Soc Wrk 811 or conc reg; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 851 Social Issue and Policy Analysis:
3 cr. Graduate.
Advanced level analysis of the relationship between selected problem areas, policy development and service system.
Prerequisites: grad st; Soc Wrk 750(P) or BSW degree.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 855 Practice Skills and Concepts for Aging and Health
3 cr. Graduate.
Intensive examination of the concepts and skills needed for effective practice with the aging population. Focus is on competency development in assessment and intervention planning from micro, mezzo, and macro perspectives.
Prerequisites: grad st; SOC WRK 705(P) or consent of instructor.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2019, Fall 2016, Summer 2016, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 901 Philosophy of Science
3 cr. Graduate.
Analyzes philosophical foundations of science, knowledge building processes, and the scope and nature of knowledge, emphasizing applications for the social and behavioral sciences.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. program or written cons instr.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 915 Human Services Administration II
3 cr. Graduate.
The role of the professional in the human services administrative organization, focusing on interpersonal relationships in supervision, evaluation and leadership.
Prerequisites: grad st; Soc Wrk 713; 722 or conc reg.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 921 Field Instruction V
1-4 cr. Graduate.
Optional advanced supervised social work practice in a social agency.
Prerequisites: grad st; SOC WRK 822 (P).
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 931 Theories of Poverty and Social Welfare Policy
3 cr. Graduate.
Analyzes anti-poverty policies/programs, populations at risk, poverty dynamics, poverty-rate trends, circumstances of the poor, poverty etiology and government roles in income redistribution and social change.
Prerequisites: grad st; admis to the Social Work Ph.D. program or written cons instr
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 932 Theories and Research on Behavior Change
3 cr. Graduate.
Theory and research of individual change from a social work perspective using classic to recent models, with application to diverse populations.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. program or written cons instr.
Last Taught: Fall 2018, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 940 Applied Gerontology Capstone I
2 cr. Graduate.
Professional socialization seminar emphasizing the interdisciplinary nature of gerontology and exposing students to professional and library resources for continuing professional development.
Prerequisites: grad st; Sociol 942 & Soc Wrk 942 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2010, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 941 Applied Gerontology Capstone II
2-3 cr. Graduate.
Teamwork applied research project conducted in collaboration with a community-based organization that serves the elderly; presentation of findings to a professional audience.
Prerequisites: grad st; Sociol or Soc Wrk 940(P).
Course Rules: Sociol 941 and Soc Wrk 941 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 942 The Family and Long-Term Care
3 cr. Graduate.
Seminar on the role of family in providing long term care. Social values, public policies, and consequences for individuals and society.
Prerequisites: grad st.
Course Rules: Socil 942 & Soc Wrk 942 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
Sociology (SOCIOL)

SOCIOL 101 Introduction to Sociology
3 cr. Undergraduate.
Sociology as a special field of social science. The relationship of the work of the sociologist to contemporary society; an examination of the sociological perspective.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 945 Family and Long-Term Care Across the Life Course
3 cr. Graduate.
Seminar on the family role in the provision of long term care within the context of kinship care, and care of persons with chronic illnesses, developmental and adult disabilities.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. prog or written cons instr.
Last Taught: Spring 2013, Spring 2011, Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 951 Quantitative Research Methods
3 cr. Graduate.
An in-depth, hands-on review of experimental, quasi-experimental, and non-experimental approaches to the design and implementation of quantitative research studies.
Prerequisites: grad st; admis to the Social Work Ph.D. Program or written cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 952 Qualitative Research Methods in Social Work
3 cr. Graduate.
Seminar on the philosophical and methodological issues of qualitative research. Students will conduct exploratory original field research and produce a research proposal based on their findings.
Prerequisites: grad st; admis to the Social Work Ph.D. prog or writ cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 956 Advanced Statistical Methods
3 cr. Graduate.
Covers multivariate statistical procedures, including MANOVA, MANCOVA, canonical correlation and discriminant function analysis, Poisson regression, survival analysis, multilevel modeling, and analysis of longitudinal data.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. program or written cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 960 Independent Research
1-4 cr. Graduate.
Participation in an independent research project under faculty supervision.
Prerequisites: grad st; cons instr; SocWrk 962(P)
Course Rules: Students shall not take more than 6 cr total between courses Soc Wrk 970(P) & 999(P).
Last Taught: Summer 2017, Fall 2015, Fall 2014, Summer 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 961 Independent Reading in Social Work
1-3 cr. Graduate.
Work suited to individual graduate students arranged.
Prerequisites: grad st; admis to the Social Work Ph.D. program or written cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 962 Applied Multiple Regression Analysis
3 cr. Graduate.
Multiple regression analysis concentrating on OLS regression techniques but also covering logistic and Poisson regression.
Prerequisites: grad st; admis to the Social Work Ph.D. program or written cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SOC WRK 963 Measurement Methods and Related Multivariate Statistics
3 cr. Graduate.
Survey of concepts and applications of Classical True Score and Item Response Theory and multivariate statistical methods relevant to test evaluation and construction.
Prerequisites: grad st; SocWrk 961(P) & 962(P); admis to the Soc Wrk Ph.D. program or written cons instr.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SS
SOCIOL 102 Solving Social Problems
3 cr. Undergraduate.
Examines problems relating to social inequality, troubled institutions, social control and social change. Explains how sociological theories can address these problems and improve communities.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 103 World Society
3 cr. Undergraduate.
Demographic and development trends related to political, economic, and eco-systems. Policy options and strategies regarding population growth, economic development, and selected institutional issues.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 104 Introduction to Social Psychology
3 cr. Undergraduate.
An introduction to sociological social psychology, emphasizing such topics as the nature of self, identity, socialization, various aspects of social interaction, and dynamics of group behavior.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 150 Multicultural America
3 cr. Undergraduate.
Prerequisites: none.
Course Rules: Cultures and Communities Program course; required service learning component.
General Education Requirements: CD, SS
Last Taught: Summer 2016, Summer 2015, Summer 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken with change in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 207 Work and Society
3 cr. Undergraduate.
The sociology of work; changes in the structure of work. Theory and research on work settings: occupations, professions, housework, work subterranean. The future of work.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 224 Race and Ethnicity in the United States
3 cr. Undergraduate.
Examines racial and ethnic relations in the U.S. in historical and contemporary contexts. Addresses racial inequality and American institutions (such as education, employment, healthcare, criminal justice, housing, and the environment).
Prerequisites: sophomore standing or a SOCIOL 100-level course.
General Education Requirements: CD, SS
Last Taught: Spring 2019, Fall 2018, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 233 Social Inequality in the United States
3 cr. Undergraduate.
A survey of intersecting inequalities, examining race, class, gender, sexuality, age, disability, and other identities. Introduction to competing stratification theories.
Prerequisites: sophomore standing or a 100-level Sociology course.
General Education Requirements: SS
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 235 Social Change in the Global Economy
3 cr. Undergraduate.
Global nature of contemporary economic and social change; local dimensions of globalization, economic integration, dislocation, transnationalization, popular resistance, and backlash.
Prerequisites: soph st or any Sociol 100-level course.
General Education Requirements: SS
Last Taught: Fall 2018, Fall 2017, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 241 Criminology
3 cr. Undergraduate.
Analysis of competing perspectives on crime, with reference to the behavior of those who define, engage in, or become the victim of criminal behavior.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 246 Juvenile Delinquency
3 cr. Undergraduate.
Study of personal and social determinants of juvenile delinquency and agencies for its control, treatment, and prevention.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 248 Sociology of Education
3 cr. Undergraduate.
Social structure of the contemporary schooling system in the United States. Topics include social class membership and education outcomes; school desegregation; high school attrition.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/
SOCIOL 250 Sex and Gender
3 cr. Undergraduate.
The study of sexual inequality; changing work and family roles in industrialized societies; the social construction of gender; sociological understandings of sexual diversity.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 255 Sociology of Sexuality
3 cr. Undergraduate.
The social construction of sexuality, the social history of sexual arrangements, and contemporary sexual theory and practice.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 260 Blood, Sex, Money, Power: Families and Intimate Relationships
3 cr. Undergraduate.
The social forces that shape inequality within, and the formation and maintenance of, marriage and other intimate relationships across diverse groups.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Spring 2017, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 261 Introduction to Statistical Thinking in Sociology
3 cr. Undergraduate.
Introduction to basic statistical concepts and procedures and their selected application to sociological data. Covers both descriptive and inferential statistics.
Prerequisites: soph st or Sociol 101(P); satisfaction of GER Quantitative Literacy Part A req.
General Education Requirements: QLB
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 282 Sociology of Aging
3 cr. Undergraduate.
Introduction to social gerontology; examination of the social dynamics and institutional contexts of aging in modern society.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 289 Internship in Sociology, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of sociology in a business, organizational, educational, political or other appropriate setting.
Prerequisites: intro course in Sociol; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 289 Internship in Sociology, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of sociology in a business, organizational, educational, political or other appropriate setting.
Prerequisites: intro course in Sociol; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 304 Political Sociology
3 cr. Undergraduate.
Examination of structural and cultural factors as related to the nature of political systems; consideration of the organization and roles of political and para-political groups.
Prerequisites: jr st & any Sociol 100-level course.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 321 Contemporary Issues of the American Indian
3 cr. Undergraduate.
Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g. activism and cultural experiences.
Prerequisites: jr st; any Sociol 100-level course or Sociol 224(P).
Course Rules: AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 323 Perspectives on Latino Communities
3 cr. Undergraduate.
Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans.
Prerequisites: jr st & any Sociol 100-level course or cons instr.
Course Rules: Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 324 Race and Ethnicity in Global Contexts
3 cr. Undergraduate.
Analysis of racial and ethnic relations in historical and cross-cultural perspective. Origin, persistence, adaptation, and change in patterns of racial and ethnic relations in various world societies.
Prerequisites: junior standing and a 100-level Sociology course; or consent of instructor.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
SOCIOL 325 Social Change
3 cr. Undergraduate.
Study of change in society; integration and various theories of social change; examination of contemporary instances of social change.
Prerequisites: jr st & any Sociol 100-level course.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 327 Data, Technology, and Society
3 cr. Undergraduate.
Examines the social implications of new and emerging technology, the diffusion of data and technology into practice, and the ways that data, technology, and society interact to reshape social relations and institutions.
Prerequisites: junior standing and a 100-level Sociology course or consent of instructor.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 330 Economy and Society
3 cr. Undergraduate.
The sociological perspective applied to economic phenomena, including production, distribution, consumption, exchanges of goods, a country's economic development, and global market.
Prerequisites: jr st; a Sociol 100-level course.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 331 Sociology of Health Care
3 cr. Undergraduate.
Cultural, social, and social-psychological factors in disease processes; distribution of disease; social definitions of illness; organization of health professions and health facilities.
Prerequisites: junior standing and a 100-level Sociology course or consent of instructor.
Last Taught: Fall 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 332 Small Groups
3 cr. Undergraduate.
Defining structure and functions of the group. Developing understanding of group processes. Recognizing and defining leadership, cliques and factions.
Prerequisites: junior standing; a 100-level Sociology course or consent of instructor.
Last Taught: Spring 2020, Fall 2018, Fall 2016, Spring 2008.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 341 Sociology of Deviant Behavior
3 cr. Undergraduate.
Analysis of the ways in which deviant behavior is socially constructed, individuals are labeled and stigmatized as deviants, and mechanisms of social control are activated or challenged.
Prerequisites: jr st & any Sociol 100-level course.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 342 Sociology of Law
3 cr. Undergraduate.
Examination of law as a social institution, the functions of law, evolution of legal systems, law and other social institutions, the legal profession.
Prerequisites: jr st & Sociol 101(P) or 104(P).
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 343 Collective Behavior
3 cr. Undergraduate.
Dynamic aspects of social and institutional change. The breakdown and transformation of the social system through cultural drift, collectivities, and social movements. Recruitment, ideology, and leadership.
Prerequisites: junior standing and a 100-level Sociology course or consent of instructor.
Last Taught: Fall 2018, Spring 2017, Fall 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 350 Environmental Sociology
3 cr. Undergraduate.
Sociological analysis of the interaction between humans, their artifacts, and the natural environment.
Prerequisites: junior standing and a 100-level Sociology course or consent of instructor.
Last Taught: Fall 2016, Spring 2015, Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 352 Social Networks
3 cr. Undergraduate.
Introduction to the basic principles and methods of social network analysis; applications and methods that social scientists use to understand the structure and implications of social networks.
Prerequisites: junior standing and a 100-level Sociology course or graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 355 Quantitative Methods
3 cr. Undergraduate.
Scientific methods in the analysis of society, procedures in problem definition, hypotheses construction, and collection, and evaluation of data.
Prerequisites: jr st; 9 cr Sociol; Sociol 261(P) or approved stats course.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 375 Social Theory
3 cr. Undergraduate.
Covers major historical and contemporary works of social thought.
Prerequisites: junior standing and 6 credits of Sociology coursework, or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 376 Modern Sociological Theory
3 cr. Undergraduate.
Major theoretical paradigms including functionalism, conflict and dialectical models, exchange theory, symbolic interactionism, and social phenomenology.
Prerequisites: Sociol 375(P).
Current Offerings: https://catalog.uwm.edu/course-search/
SOCIOL 377 Urbanism and Urbanization
3 cr. Undergraduate.
Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.
Prerequisites: jr st & a Sociol 100-level course; or Urb Std 250(P).
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: SS
Last Taught: Fall 2018, Fall 2017, Fall 2010, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 380 Honors Seminar:
3 cr. Undergraduate.
Selected topics in sociology
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Last Taught: Fall 2018, Fall 2017, Fall 2010, Fall 2006.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 399 Independent Study-Upper Division
1-3 cr. Undergraduate.
Independent work in specific areas of sociology under supervision.
Prerequisites: jr st; 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 442 The Work-Family Intersection
3 cr. Undergraduate/Graduate.
Social forces shaping work and family patterns and ideologies; implications of social change for employers, workers, and families; survey of work-family policies.
Prerequisites: jr st; 6 cr 200-level or above Sociol.
Course Rules: No cr for students w/cr in Sociol 495 w/similar topic.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 442G The Work-Family Intersection
3 cr. Undergraduate/Graduate.
Social forces shaping work and family patterns and ideologies; implications of social change for employers, workers, and families; survey of work-family policies.
Prerequisites: jr st; 6 cr 200-level or above Sociol.
Course Rules: No cr for students w/cr in Sociol 495 w/similar topic.
Last Taught: Spring 2019, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 443 Organizations, Occupations, and Professions
3 cr. Undergraduate/Graduate.
Study of professional concepts, ethical codes, work norms, specialization, recruitment, education, and work roles in an organizational context.
Prerequisites: jr st; Sociol 261(P) or approved stats course; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 444G Organizations, Occupations, and Professions
3 cr. Undergraduate/Graduate.
Study of professional concepts, ethical codes, work norms, specialization, recruitment, education, and work roles in an organizational context.
Prerequisites: jr st & a Sociol 100-level course; or consent of instructor; or graduate standing.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 444 Sociology of the Body
3 cr. Undergraduate/Graduate.
How the body is shaped by social forces. Relationship between the body, identity, and culture, focusing on gender, race/ethnicity, and disability.
Prerequisites: jr st & any Sociol course; or grad st.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 444G Sociology of the Body
3 cr. Undergraduate/Graduate.
How the body is shaped by social forces. Relationship between the body, identity, and culture, focusing on gender, race/ethnicity, and disability.
Prerequisites: jr st & any Sociol course; or grad st.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 448 Sociology of Children and Adolescents
3 cr. Undergraduate/Graduate.
Theoretical perspectives and research methods addressing substantive issues in children's and adolescents' lives, including peer cultures, schooling, families, gender, race, class, health, and work.
Prerequisites: jr st & any Sociol course; or grad st.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 448G Sociology of Children and Adolescents
3 cr. Undergraduate/Graduate.
Theoretical perspectives and research methods addressing substantive issues in children's and adolescents' lives, including peer cultures, schooling, families, gender, race, class, health, and work.
Prerequisites: jr st & any Sociol course; or grad st.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 461 Social Data Analysis Using Regression
3 cr. Undergraduate/Graduate.
Advanced practical training in multivariate regression using real, large datasets (surveys, census data, etc.); how multiple independent variables influence a dependent variable. No cr for students w/cr in Sociol 499 with similar topic.
Prerequisites: jr st, Sociol 261(P) or approved stats course; or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 461G Social Data Analysis Using Regression
3 cr. Undergraduate/Graduate.
Advanced practical training in multivariate regression using real, large datasets (surveys, census data, etc.); how multiple independent variables influence a dependent variable. No cr for students w/cr in Sociol 499 with similar topic.
Prerequisites: jr st, Sociol 261(P) or approved stats course; or grad st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/
SOCIOL 476 Sociology of International Public Health
3 cr. Undergraduate/Graduate.
Social, economic, and political factors that influence inequality in health at the global level; interacting influence of micro and macro forces on public health.
Prerequisites: jr st; 9 cr in Sociol at 200-level or above; or grad st.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 476G Sociology of International Public Health
3 cr. Undergraduate/Graduate.
Social, economic, and political factors that influence inequality in health at the global level; interacting influence of micro and macro forces on public health.
Prerequisites: jr st; 9 cr in Sociol at 200-level or above; or grad st.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 489 Internship in Sociology, Upper Division
3 cr. Undergraduate.
Application of advanced principles of sociology in a business, organization, educational, political or other appropriate setting; includes course work and 120 hrs field work.
Prerequisites: jr st; declared Sociol major or minor; Sociol 361(P); 2.75 gpa; cons supervising faculty member.
Last Taught: Fall 2019, Spring 2017, Spring 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 495 Seminar in Sociology:
3 cr. Undergraduate/Graduate.
Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.
Prerequisites: jr st; 6 cr 200-level or above Sociol or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 495G Seminar in Sociology:
3 cr. Undergraduate/Graduate.
Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.
Prerequisites: jr st; 6 cr 200-level or above Sociol or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Fall 2007, Fall 2004, UWinteriM 2003.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 610 Reproduction of Minority Communities
3 cr. Undergraduate/Graduate.
Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.
Prerequisites: jr st; any Sociol 100-level course.
Course Rules: Jointly-offered w/ & counts as repeat of Ed Pol 610.
Last Taught: Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 610G Reproduction of Minority Communities
3 cr. Undergraduate/Graduate.
Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.
Prerequisites: jr st; any Sociol 100-level course.
Course Rules: Jointly-offered w/ & counts as repeat of Ed Pol 610.
Last Taught: Fall 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 701 Professional Seminar
1 cr. Graduate.
Fundamentals of academic and sociological reading, writing, and thinking. Orientation to graduate study, the sociological profession, and the tools of sociological research.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations.
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/
SOCIOL 715 Systematic Sociological Theory
3 cr. Graduate.
A general examination of sociological theories, their construction, problems of conceptualization, and methodological requirements.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 750 Research Methods in Sociology
3 cr. Graduate.
Application of scientific methods to the analysis of social phenomena, methodological orientations in sociology, types of research procedure, and nature of sociological variables.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 752 Fundamentals of Survey Methodology
3 cr. Graduate.
Seminar in the principles of survey design that are the basis of standard practices in the field of sociology.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 754 Questionnaire Design
3 cr. Graduate.
Seminar in the design, evaluation, pretesting, ordering, and formatting of questions and questionnaires.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 760 Advanced Statistical Methods in Sociology
3 cr. Graduate.
Prerequisites: grad st; score of 85 on dept diagnostic examination.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 790 Master's Level Thesis/Paper
1-6 cr. Graduate.
Research or thesis/paper work for students in the master's program in sociology.
Prerequisites: grad st; cons instr
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 794 Proseminar: The Teaching of Undergraduate Sociology
1 cr. Graduate.
Designed to prepare and support new teachers of undergraduate Sociology.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 799 Master's Level Reading and Research
1-3 cr. Graduate.
Independent study of a topic selected by a student after consultation with member of graduate faculty.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 901 Seminar: Urban Social Structure
3 cr. Graduate.
Comprehensive analysis of the emergence and institutionalization of cultural and social patterns in urban settings; and future American urban social structures.
Prerequisites: grad st.
Course Rules: Sociol 901 & Urb Std 901 are jointly-offered & count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 910 The Sociology of Inequality
3 cr. Graduate.
Social, economic, cultural, and political forces behind the formation and reproduction of social inequalities in the United States.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 911 The Sociology of Institutions
3 cr. Graduate.
Social institutions as a foundational sociological concept. Theory and research on institutional emergence, persistence, and change.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2017, Spring 2015, Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 920 Seminar in Race and Ethnic Relations
3 cr. Graduate.
Patterns of racial and ethnic differentiation and how they originate and change over time.
Prerequisites: grad st.
Last Taught: Fall 2013, Fall 2010, Fall 2003, Fall 2000.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 923 Seminar on the Sociology of Culture
3 cr. Graduate.
Selected themes in the sociology of culture, including symbols, language, forms of knowledge, power and practice, the arts, and media.
Prerequisites: grad st
Course Rules: No cr for students w/cr in Sociol 927 w/same title.
Current Offerings: https://catalog.uwm.edu/course-search/
SOCIOL 927 Seminar in Sociology of Contemporary Institutions: 3 cr. Graduate.
Analysis of major social institutions in modern societies in terms of status orders, division of labor, normative systems, processes of social change, and conflict. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic & cons adviser to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 928 Seminar in Social Organization: 3 cr. Graduate.
Study of conceptual approaches used in analyzing social organization: social stratification, complex organization, urbanization, small groups in mass society. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic & cons advisor to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 940 Applied Gerontology Capstone I 2 cr. Graduate.
Professional socialization seminar emphasizing the interdisciplinary nature of gerontology and exposing students to professional and library resources for continuing professional development.
Prerequisites: grad st; Nura 760(P) & Soc Wrk 851(P).
Course Rules: Sociol 940 and Soc Wrk 940 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2008, Fall 2007, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 941 Applied Gerontology Capstone II 2-3 cr. Graduate.
Teamwork applied research project conducted in collaboration with a community-based organization that serves the elderly; presentation of findings to a professional audience.
Prerequisites: grad st; Sociol or Soc Wrk 940(P).
Course Rules: Sociol 941 and Soc Wrk 941 are jointly offered; they count as repeats of one another. Students who intend to prepare a manuscript for publication enroll for 3 crs; all others enroll for 2 crs.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 942 The Family and Long-Term Care 3 cr. Graduate.
Seminar on the role of family in providing long term care. Social values, public policies, and consequences for individuals and society.
Prerequisites: grad st.
Course Rules: Sociol 942 & Soc Wrk 942 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 951 Seminar in Research Methodology 3 cr. Graduate.
Discussion of selected topics in research design, research methods, statistical analysis, and model construction.
Prerequisites: grad st.
Course Rules: Retakable to 9 cr max with cons adviser.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 979 Qualitative Research Methods 3 cr. Graduate.
Seminar on logic, design, and presentation of social science research. Inductive and qualitative methods, theory construction, and ethics and procedures of research in natural settings.
Prerequisites: grad st.
Course Rules: Sociol 979 & Urb Std 979 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 982 Advanced Quantitative Analysis 3 cr. Graduate.
Evaluation of different methods of generating data and their applications to the analysis of public policies and programs.
Prerequisites: grad st; min. score of 85 on dept diagnostic exam.
Course Rules: Sociol 982 & Urb Std 982 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 990 Doctoral Dissertation 1-6 cr. Graduate.
Prerequisites: grad st; admission to candidacy for PhD degree; cons major prof.
Current Offerings: https://catalog.uwm.edu/course-search/

SOCIOL 999 Doctoral Reading and Research 1-6 cr. Graduate.
Independent study of a topic selected by a student after consultation with member of graduate faculty.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

Spanish (SPANISH)

SPANISH 103 First-Semester Spanish 4 cr. Undergraduate.
Introductory course for students who have had little or no previous work in Spanish.
Prerequisites: none.
Course Rules: Open only to students with 2 yrs H.S. Spanish or less or a score of 1 on Spanish placement exam.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 104 Second-Semester Spanish 4 cr. Undergraduate.
Continuation of Spanish 103.
Prerequisites: grade of C- or better in Spanish 103(P) or level 2 score on Spanish placement exam.
Course Rules: Generates L&S credits for demonstrated equivalent preparation (4 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/
SPANISH 123 Regional Languages of Spain, First Semester
3-6 cr. Undergraduate.
Introductory course for students who have had no previous work in one of the official, regional languages of Spain.
Prerequisites: none.
Course Rules: May be retaken w/chg of language.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 124 Regional Languages of Spain, Second Semester
3-6 cr. Undergraduate.
Second-semester introductory course for students who have had no previous work in one of the official, regional languages of Spain.
Prerequisites: Spanish 123(P) in same language.
Course Rules: May be retaken w/chg of language.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 192 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194).
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 197 Study Abroad
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg of topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 203 Third-Semester Spanish
3 cr. Undergraduate.
Continuation of Spanish 104. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature.
Prerequisites: grade of C- or better in Spanish 104(P) or level 3 score on Spanish placement exam.
Course Rules: Generates L&S credits for demonstrated equivalent preparation (8 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 204 Fourth-Semester Spanish
3 cr. Undergraduate.
Continuation of Spanish 203. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature.
Prerequisites: grade of C- or better in Spanish 203(P) or level 4 score on Spanish placement exam.
Course Rules: Generates L&S credits for demonstrated equivalent preparation (11 retro crs).
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 2066 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 207 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 209 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 210 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 211 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 212 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 213 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 214 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 215 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 216 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 217 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 218 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 219 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 220 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 221 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 222 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 223 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 224 Spanish (SPANISH)
Generates L&S credits for demonstrated equivalent
May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 225 Understanding the Hispanic World
3 cr. Undergraduate.
Different manifestations of Hispanic culture across continents and centuries studied from many angles.
Prerequisites: none.
Course Rules: In English. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 277 Spanish Discussion Section
1-2 cr. Undergraduate.
Discussion in Spanish, designed to broaden perspectives and improve language skills.
Prerequisites: none.
Course Rules: Offered in conjunction w/courses in other disciplines or in Spanish. May be retaken to 6 cr max.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 289 Internship in Spanish, Lower Division
1-3 cr. Undergraduate.
Application of basic principles of Spanish in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Spanish; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before coursework level, content and cr are determined and/or in specially prepared program coursework.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem. May be retaken w/chg in topic.
Prerequisites: none; addl prereqs may be assigned to specific topic.
Current Offerings: https://catalog.uwm.edu/course-search/
SPANISH 308 Advanced Writing and Reading
3 cr. Undergraduate.
Development of proficiency in different writing styles; emphasis on the most difficult aspects of Spanish through reading and other exercises.
Prerequisites: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.
Course Rules: Counts as repeat of Spanish 305 and 316. Generates L&S credits for demonstrated equivalent preparation (14 retro credits).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 315 Spanish Immersion Experience
1 cr. Undergraduate.
Concentrated practice in spoken Spanish with a native speaker in a small-group setting, with a focus on Hispanic culture. Offered in three-day modules.
Prerequisites: Spanish 308(P); Spanish 318 (P) or 319 (P); or cons instr.
Course Rules: May be retaken to 3 cr max.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 318 Advanced Speaking and Listening
3 cr. Undergraduate.
Development of oral proficiency in relation to Hispanic culture.
Prerequisites: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.
Course Rules: For non-heritage Spanish speakers. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 319 Advanced Speaking and Listening for Heritage Speakers
3 cr. Undergraduate.
Development of full proficiency in reading, writing, and speaking skills in Spanish for students with native/near-native command of these skills.
Prerequisites: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.
Course Rules: Open only to heritage Spanish speakers. Others with near-native proficiency admitted at instr discretion. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro credits).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 322 Business and Legal Spanish I
3 cr. Undergraduate.
Business and legal language and practice in Spanish-speaking countries.
Prerequisites: Spanish 308(P); Spanish 318(C) or 319(C).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 332 Advanced Spanish Grammar
3 cr. Undergraduate.
Designed to solidify written expression skills and provide a clear understanding of Spanish grammar rules at an advanced level.
Prerequisites: Spanish 308(P); Spanish 318(P) or 319(P).
Last Taught: Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 338 Spanish for Health Professionals
3 cr. Undergraduate.
Acquisition of intermediate conversational and written skills in medical terminology in Spanish through a communicative approach. For health care students.
Prerequisites: Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 341 Introduction to Hispanic Linguistics
3 cr. Undergraduate.
Spanish linguistics, including phonetics, phonology, syntax, morphology, semantics, and sociolinguistics.
Prerequisites: Spanish 308(P); Spanish 318(C) or 319(C).
Course Rules: Generates L&S credits for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 342 Business and Legal Spanish II
3 cr. Undergraduate.
Business terminology and concepts; instruction in the legal terminology of Hispanic countries; preparation of documents.
Prerequisites: Spanish 308(P); Spanish 318(C) or 319(C); or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 348 Introduction to Translation: English to Spanish
3 cr. Undergraduate/Graduate.
Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.
Prerequisites: jr st; Spanish 308(P); Spanish 318(C) or 319(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 348G Introduction to Translation: English to Spanish
3 cr. Undergraduate/Graduate.
Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.
Prerequisites: jr st; Spanish 308(P); Spanish 318(C) or 319(C).
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 350 Introduction to Literary Analysis
3 cr. Undergraduate.
Designed to acquaint students with the critical tools needed to analyze texts and conduct research.
Prerequisites: Spanish 308(P); Spanish 318(C) or 319(C).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 351 Introduction to Latino Literature in English
3 cr. Undergraduate.
Introduction to the development of literature by Chicanos, Nuyoricans, and other Hispanics since the late fifties and its historical, social, and political background.
Prerequisites: jr st or writ cons dept.
Course Rules: Taught in English.
General Education Requirements: CD, HU
Last Taught: Fall 2016, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
SPANISH 373 Topics in Latino Literature in English: 3 cr. Undergraduate. Some of the experiences of U.S. Hispanics as reflected in literature, film, and other cultural manifestations. 
Prerequisites: jr st or writ cons dept. 
Course Rules: Taught in English. May be retaken w/chg in topic to 6 cr max. 
General Education Requirements: CD, HU 
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 377 Introduction to Galician Culture 3 cr. Undergraduate/Graduate. Main concepts and issues in understanding the unique culture of Galicia, in northwestern Spain, from a variety of perspectives. 
Prerequisites: jr st, Spanish 308(P); Spanish 318(C) or 319(C); cons instr. 
General Education Requirements: HU 
Last Taught: Summer 2007. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 377G Introduction to Galician Culture 3 cr. Undergraduate/Graduate. Main concepts and issues in understanding the unique culture of Galicia, in northwestern Spain, from a variety of perspectives. 
Prerequisites: jr st, Spanish 308(P); Spanish 318(C) or 319(C); cons instr. 
General Education Requirements: HU 
Last Taught: Summer 2007. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 380 Hispanic Literature in Translation: 3 cr. Undergraduate. Selected works of Hispanic literature from different periods and genres and representing several subjects. 
Prerequisites: jr st. 
Course Rules: May be retaken w/chg in topic to 6 cr max. Does not count towards the major or minor. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 388 Health Issues in the Hispanic World 3 cr. Undergraduate. Different aspects of the health care system in the U.S. in relation to the Hispanic culture(s). 
Prerequisites: Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 391 Social and Historical Issues in the Hispanic World: 3 cr. Undergraduate. Culture of the Hispanic people, with a focus on a particular social or historical perspective and/or issue. 
Prerequisites: Spanish 308(P); Spanish 318(C) or 319(C). 
Course Rules: May be retaken w/chg in topic to 9 cr max. 
General Education Requirements: HU 
Last Taught: Spring 2020, Fall 2019, Fall 2017, Spring 2017. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 397 Study Abroad: 1-12 cr. Undergraduate. Designed to enable students studying language abroad to receive course credit at appropriate level. 
Prerequisites: jr st; acceptance in Study Abroad Prog. 
Course Rules: May be retaken w/ change in topic. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 443 Spanish Phonetics and Phonology 3 cr. Undergraduate/Graduate. Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required. 
Prerequisites: jr st; Spanish 341(P). 
Last Taught: Spring 2015, Spring 2012. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 443G Spanish Phonetics and Phonology 3 cr. Undergraduate/Graduate. Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required. 
Prerequisites: jr st; Spanish 341(P). 
Last Taught: Spring 2015, Spring 2012. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 444 Spanish Syntax and Morphology 3 cr. Undergraduate/Graduate. Comprehensive review of Spanish syntax and morphology; the meaning of words, sentences, and discourse. 
Prerequisites: jr st; Spanish 341(P). 
Last Taught: Fall 2016, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 444G Spanish Syntax and Morphology 3 cr. Undergraduate/Graduate. Comprehensive review of Spanish syntax and morphology; the meaning of words, sentences, and discourse. 
Prerequisites: jr st; Spanish 341(P). 
Last Taught: Fall 2016, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 446 Hispanic Sociolinguistics 3 cr. Undergraduate/Graduate. Critical analysis of the relationship between language and society in the Hispanic world. 
Prerequisites: jr st; Spanish 341(P). 
Last Taught: Spring 2014, Fall 2011. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 446G Hispanic Sociolinguistics 3 cr. Undergraduate/Graduate. Critical analysis of the relationship between language and society in the Hispanic world. 
Prerequisites: jr st; Spanish 341(P). 
Last Taught: Spring 2014, Fall 2011. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 470 Survey of Hispanic Literature and Civilization 3 cr. Undergraduate. Literature in Spain and Spanish America from the Middle Ages to 1880. 
Prerequisites: jr st; Spanish 350(P). 
Current Offerings: https://catalog.uwm.edu/course-search/
SPANISH 472 Survey of Spanish-American Literature and Civilization
3 cr. Undergraduate.
Literature in Spanish America from Modernism to the present.
Prerequisites: jr st; Spanish 350(P).
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 474 Survey of Spanish Literature and Civilization
3 cr. Undergraduate.
Literature in Spain from Realism to the present.
Prerequisites: jr st; Spanish 350(P).
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 489 Internship in Spanish, Upper Division
1-3 cr. Undergraduate.
Application of advanced principles of Spanish in a business, organizational, educational, political, or other appropriate non-salaried setting.
Prerequisites: jr st; 6 cr at 400-level or above in Spanish; 3.50 gpa in Spanish major; writ cons supervising faculty member and dept chair.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 3 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 491 Topics in Hispanic Culture:
3 cr. Undergraduate/Graduate.
The culture of a group of Hispanic people from a particular social and/or historical perspective, with a focus on one or more manifestations of that culture.
Prerequisites: jr st; Spanish 350(P); 3 cr from Spanish 470(P) or 472(P) or 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 491G Topics in Hispanic Culture:
3 cr. Undergraduate/Graduate.
The culture of a group of Hispanic people from a particular social and/or historical perspective, with a focus on one or more manifestations of that culture.
Prerequisites: jr st; Spanish 350(P); 3 cr from Spanish 470(P) or 472(P) or 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, contact, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 506 Seminar in Spanish Literature:
3 cr. Undergraduate/Graduate.
One or more areas of Spanish peninsular literature across periods, genres, or regions.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 506G Seminar in Spanish Literature:
3 cr. Undergraduate/Graduate.
One or more areas of Spanish peninsular literature across periods, genres, or regions.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 507 Seminar in Spanish-American Literature:
3 cr. Undergraduate/Graduate.
One or more areas of Spanish-American literature across periods, genres, or regions.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 507G Seminar in Spanish-American Literature:
3 cr. Undergraduate/Graduate.
One or more areas of Spanish-American literature across periods, genres, or regions.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2019, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
SPANISH 508 Seminar in Hispanic Literature:
3 cr. Undergraduate/Graduate.
A literary subject with manifestations in more than one Hispanic literature, including Latino literature, with focus on the differences between/among them.
Prerequisites: jr st; Spanish 470(P); Spanish 472(P) or 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 508G Seminar in Hispanic Literature:
3 cr. Undergraduate/Graduate.
A literary subject with manifestations in more than one Hispanic literature, including Latino literature, with focus on the differences between/among them.
Prerequisites: jr st; Spanish 470(P); Spanish 472(P) or 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 541 History of the Spanish Language
3 cr. Undergraduate/Graduate.
External and internal history of the evolution of the Spanish language.
Prerequisites: jr st; Spanish 341(P); 3 cr from Spanish 443(P) or 444(P) or 446(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 541G History of the Spanish Language
3 cr. Undergraduate/Graduate.
External and internal history of the evolution of the Spanish language.
Prerequisites: jr st; Spanish 341(P); 3 cr from Spanish 443(P) or 444(P) or 446(P), or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 545 Seminar in Hispanic Linguistics:
3 cr. Undergraduate/Graduate.
One or more branches of linguistics, such as dialectology, pragmatics, sociolinguistics, historical linguistics, etc., in relation to the Hispanic languages.
Prerequisites: jr st; Spanish 341(P); 3 credits from Spanish 443(P) or 444(P) or 446(P), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 545G Seminar in Hispanic Linguistics:
3 cr. Undergraduate/Graduate.
One or more branches of linguistics, such as dialectology, pragmatics, sociolinguistics, historical linguistics, etc., in relation to the Hispanic languages.
Prerequisites: jr st; Spanish 341(P); 3 credits from Spanish 443(P) or 444(P) or 446(P), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 570 Seminar in Spanish Golden Age Literature:
3 cr. Undergraduate/Graduate.
Topics on the poetry and/or the narrative and didactic prose of the late sixteenth and the seventeenth centuries.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 570G Seminar in Spanish Golden Age Literature:
3 cr. Undergraduate/Graduate.
Topics on the poetry and/or the narrative and didactic prose of the late sixteenth and the seventeenth centuries.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 571 Seminar in Spanish-American Colonial Literature and Civilization:
3 cr. Undergraduate/Graduate.
Poetry, narrative, didactic prose, and dramatic literature of Spanish America up to the eighteenth century.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 571G Seminar in Spanish-American Colonial Literature and Civilization:
3 cr. Undergraduate/Graduate.
Poetry, narrative, didactic prose, and dramatic literature of Spanish America up to the eighteenth century.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 572 Seminar on Cervantes:
3 cr. Undergraduate/Graduate.
'Don Quixote' and/or other works by Cervantes.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 572G Seminar on Cervantes:
3 cr. Undergraduate/Graduate.
'Don Quixote' and/or other works by Cervantes.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

SPANISH 575 Seminar in 18th & 19th Century Spanish-American Literature & Civilization:
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, drama and/or essay of the Spanish-American countries during the 18th and 19th centuries.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
### SPANISH 575G Seminar in 18th & 19th Century Spanish-American Literature & Civilization
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, drama and/or essay of the Spanish-American countries during the 18th and 19th centuries.
**Prerequisites:** jr st; Spanish 470(P) & 472(P).
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Spring 2019, Spring 2017, Spring 2015, Spring 2013.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 577 Seminar in Modern Spanish-American Literature and Civilization
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, essay, and/or drama of the Spanish American countries after 1888.
**Prerequisites:** jr st; Spanish 470(P) & 472(P).
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Fall 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 577G Seminar in Modern Spanish-American Literature and Civilization
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, essay, and/or drama of the Spanish American countries after 1888.
**Prerequisites:** jr st; Spanish 470(P) & 472(P).
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Fall 2010, Spring 2009.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 578 Seminar in Modern Spanish Literature and Civilization
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, and/or drama of twentieth- and twenty-first-century Spain.
**Prerequisites:** jr st; Spanish 470(P) & 474(P).
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Fall 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 578G Seminar in Modern Spanish Literature and Civilization
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, and/or drama of twentieth- and twenty-first-century Spain.
**Prerequisites:** jr st; Spanish 470(P) & 474(P).
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**Last Taught:** Fall 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 595 Spanish for Reading Knowledge
3 cr. Undergraduate.
Reading proficiency for students who are not Spanish majors but who have an interest in learning and/or solidifying their reading skills in the language.
**Prerequisites:** jr st.
**Course Rules:** Counts as repeat of Spanish 499 with same topic.
**Last Taught:** Summer 2013, Summer 2012.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
**Prerequisites:** jr st; acceptance in Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 597G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
**Prerequisites:** jr st; acceptance in Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
**Prerequisites:** jr st; acceptance in Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 697G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
**Prerequisites:** jr st; acceptance in Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 699 Independent Study
1-3 cr. Undergraduate.
Advanced independent work under supervision of Spanish faculty or instructional academic staff member. Instructor must approve student’s study proposal. For more information, consult dept chair.
**Prerequisites:** jr st; 2.0 overall GPA; 3.5 Spanish GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.
**Course Rules:** May be retaken with change in topic.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 700 Practicum in Spanish Language Teaching Methods
1 cr. Graduate.
Practical application within Spanish of methods and concepts taught in MALT (MAFLL) 700.
**Prerequisites:** grad st; MALT (MAFLL) 700(C) or cons instr.
**Course Rules:** Retakable to 2 cr max.
**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 701 Historical Linguistics
3 cr. Graduate.
Evolution of the language from Latin to medieval Spanish and from medieval to modern Spanish, including contemporary varieties.
**Prerequisites:** grad st; Spanish 341(R) or equiv.
**Last Taught:** Spring 2019, Spring 2017, Spring 2015, Spring 2013.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)


SPANISH 717 Seminar in Advanced Translation: Spanish to English: 3 cr. Graduate. Comparative study of Spanish and English syntax; advanced translation (Spanish to English) of texts from the humanities, social and political sciences, technical writing, advertising. Counts as repeat of Trnsltn 717. Not open to students w/grad cr in Spanish 447. Prerequisites: grad st; Spanish 707(P) or grad cr in Spanish 347 (P), or wrt cons Transltn coord. Last Taught: Spring 2010. Current Offerings: https://catalog.uwm.edu/course-search/


SPANISH 769 Seminar in 20th Century Literature of Spain and/or Spanish America & Related Topics: 3 cr. Graduate. Prerequisites: grad st. Current Offerings: https://catalog.uwm.edu/course-search/


### SPANISH 781 Seminar in Hispanic Literature
3 cr. Graduate.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/chg in topic to 6 cr max.
**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 782 Modern Spanish Women Writers
3 cr. Graduate.
A study of women writers of Spain during the 20th and 21st centuries.
**Prerequisites:** grad st.
**Last Taught:** Fall 2018, Spring 2016, Spring 2009.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 785 Detective Fiction of Spain
3 cr. Graduate.
A study of the detective genre in the literature of Spain.
**Prerequisites:** grad st.
**Last Taught:** Spring 2013, Fall 2010.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 790 Thesis
1-6 cr. Graduate.
Independent study and research on a master's thesis under supervision of the student's advisory committee.
**Prerequisites:** grad st; cons advisory committee.
**Course Rules:** Retakable to 6 cr max.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 791 Spanish Culture and Related Topics
3 cr. Graduate.
An in-depth examination of the culture of Spain with special attention paid to the history of the country and to the formation of a Spanish identity.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Last Taught:** Spring 2013, Fall 2012, Fall 2008, Spring 2000.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 793 Spanish American Culture and Related Topics
3 cr. Graduate.
In-depth examination of the development of a Latin American culture with a focus on key aspects of that culture after independence.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 799 Independent Study
1-3 cr. Graduate.
Individual program of supervised study in the student’s area of emphasis or interest, different from content of course offerings, supervised by a graduate faculty. Topics selected in agreement with and the approval of supervising professor.
**Prerequisites:** grad st; 3.0 gpa in Spanish grad courses, writ cons instr & dept chair.
**Course Rules:** Retakable w/chg in topic to 3 cr max.
**Last Taught:** Spring 2016, Spring 2014, Fall 2013, Spring 2011.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### SPANISH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
**Prerequisites:** graduate standing.
**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 3 cr max. Satisfactory/Unsatisfactory only.
**Last Taught:** Fall 2019, Summer 2017, Spring 2016, Fall 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### Sport and Recreation (SPT&REC)

#### SPT&REC 100 Sports Officiating - Basketball
1 cr. Undergraduate.
Officiating, conducting and administering the sport of basketball.
**Prerequisites:** none.
**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Fall 2012.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

#### SPT&REC 104 Sports Officiating - Volleyball
1 cr. Undergraduate.
Officiating, conducting and administering the sport of volleyball.
**Prerequisites:** none.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

#### SPT&REC 110 Physical Conditioning
1 cr. Undergraduate.
Theory & practice of physical conditioning.
**Prerequisites:** none.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

#### SPT&REC 112 Yoga I
1 cr. Undergraduate.
Theory and practice of yoga.
**Prerequisites:** none. It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

#### SPT&REC 113 Yoga II
1 cr. Undergraduate.
Theory and practice of yoga II.
**Prerequisites:** Spt&Rec 112(P). It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

#### SPT&REC 114 Weight Training I
1 cr. Undergraduate.
Theory and practice of weight training.
**Prerequisites:** none.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

#### SPT&REC 115 Weight Training II
1 cr. Undergraduate.
Theory and practice of weight training II.
**Prerequisites:** Spt&Rec 114(P).
**Last Taught:** Spring 2020, Fall 2018, Fall 2016, Spring 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
SPT&REC 116 Aerobic Dance
1 cr. Undergraduate.
Theory and practice of aerobic dance.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 117 Step Aerobics
1 cr. Undergraduate.
Theory and practice of Step Aerobics
Prerequisites: none.
Last Taught: Fall 2015, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 120 Swim I
1 cr. Undergraduate.
Theory and practice of swim I.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 121 Swim II
1 cr. Undergraduate.
Theory and practice of swim II.
Prerequisites: Spt&Rec 120(P) or swim one length of pool (25 yards) any stroke.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 123 Water Aerobics
1 cr. Undergraduate.
Theory and practice of aerobic water exercise.
Prerequisites: none.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 126 Skin & Scuba
1 cr. Undergraduate.
Theory and practice of skin and scuba.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 130 Ballroom Dance I
1 cr. Undergraduate.
Theory and practice of ballroom dancing.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 131 Ballroom Dance II
1 cr. Undergraduate.
Theory and practice of ballroom dancing.
Prerequisites: Spt&Rec 130(P).
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 156 Orienteering
1 cr. Undergraduate.
Theory and practice of orienteering.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 161 Bowling I
1 cr. Undergraduate.
Theory and practice of bowling
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 162 Bowling II
1 cr. Undergraduate.
Theory and practice of bowling.
Prerequisites: Spt&Rec 161(P).
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 166 Golf
1 cr. Undergraduate.
Theory and practice of golf.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 172 Tae Kwon-Do
1 cr. Undergraduate.
Theory and practice of tae kwon-do.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 173 Tae Kwon-Do II
1 cr. Undergraduate.
Theory and practice of tae kwon-do.
Prerequisites: Spt&Rec 172(P) or equiv.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 174 Self-Defense
1 cr. Undergraduate.
Theory and practice of self-defense.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 176 Basketball
1 cr. Undergraduate.
Theory and practice of basketball.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 179 Handball
1 cr. Undergraduate.
Theory and practice of handball.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 180 Racquetball I
1 cr. Undergraduate.
Theory and practice of racquetball.
Prerequisites: none.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
SPT&REC 181 Racquetball II
1 cr. Undergraduate.
Theory and practice of racquetball.
**Prerequisites:** Spt&Rec 180(P).
**Last Taught:** Spring 2017, Spring 2016, Fall 2015, Spring 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 182 Tennis I
1 cr. Undergraduate.
Theory and practice of tennis.
**Prerequisites:** none.
**Last Taught:** Fall 2019, Summer 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 183 Tennis II
1 cr. Undergraduate.
Theory and practice of tennis.
**Prerequisites:** Spt&Rec 182.
**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 185 Karate I
1 cr. Undergraduate.
Theory and practice of karate.
**Prerequisites:** none.
**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Fall 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 186 Karate II
1 cr. Undergraduate.
Theory and practice of karate.
**Prerequisites:** Spt&Rec 170(P) or 185(P).
**Last Taught:** Spring 2020, Spring 2018, Fall 2017, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 187 Karate III
1 cr. Undergraduate.
Theory and practice of karate.
**Prerequisites:** Spt&Rec 171(P) or 186(P) or equiv.
**Last Taught:** Spring 2020, Spring 2018, Fall 2017, Spring 2017.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 191 Volleyball
1 cr. Undergraduate.
Theory and practice of volleyball.
**Prerequisites:** none.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 192 Volleyball II
1 cr. Undergraduate.
Theory and practice of volleyball.
**Prerequisites:** Spt&Rec 178(P) or 191(P) or equiv.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 289 General Recreation Activities:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill development in general recreation and leisure activities. Credits for specific topics announced in Schedule of Classes.
**Prerequisites:** none, except as required for specific topic.
**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 290 Ad Hoc Course in Sport and Recreation:
1-3 cr. Undergraduate.
Topics of current interest in health, leisure, and recreation. May be retaken w/chg in topic. Special course fees may be required depending on course. Prereq: specified in semester Schedule whenever required for a topic
**Prerequisites:** May be retaken w/chg in topic.
**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 291 Recreational Arts and Crafts:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill development in the area of Arts and Crafts. Credits for specific topics announced in Schedule of Classes.
**Prerequisites:** none, except as required for specific topic.
**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 292 Social and Creative Dance:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill development in the area of Social and Creative Dance. Credits for specific topics announced in Schedule of Classes.
**Prerequisites:** none, except as required for specific topic.
**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.
**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

SPT&REC 293 Martial Arts:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill development in martial arts. Credits for specific topics announced in Schedule of Classes.
**Prerequisites:** none, except as required for specific topic.
**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
SPT&REC 294 Wilderness Adventure and Outdoor Activities:
1-2 cr. Undergraduate. 
Topics of current interest focusing on life-long participation and skill development in the areas of Wilderness Adventure and Outdoors Activities. Credits for specific topics announced in Schedule of Classes. 
Prerequisites: none, except as required for specific topic. 
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 295 Organized Sport:
1-2 cr. Undergraduate. 
Topics of current interest focusing on life-long participation and skill development in the area of sport. Credits for specific topics announced in Schedule of Classes. 
Prerequisites: none, except as required for specific topic. 
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 296 Exercise and Fitness Activities:
1-2 cr. Undergraduate. 
Topics of current interest focusing on life-long participation and skill development in the area of Exercise and Fitness. Credits for specific topics announced in Schedule of Classes. 
Prerequisites: none, except as required for specific topic. 
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. 
Current Offerings: https://catalog.uwm.edu/course-search/

SPT&REC 298 Meditation, Relaxation, and Wellness:
1-2 cr. Undergraduate. 
Topics of current interest focusing on life-long participation and skill development in the areas of meditation, relaxation, and wellness. Credits for specific topics announced in Schedule of Classes. 
Prerequisites: none, except as required for specific topic. 
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. 
Current Offerings: https://catalog.uwm.edu/course-search/

Sustainable Peacebuilding, Master of (MSP)

MSP 760 The Politics and Policy of Sustainability
3 cr. Graduate. 
Principles of environmental policy, governance, and management for global sustainability. 
Prerequisites: grad st; admis to Master of Sustainable Peacebuilding prog or cons instr. 
Course Rules: Counts as repeat of grad cr in Global 461 and CES 461. 
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

MSP 761 Complex Human-Environmental Interactions
3 cr. Graduate. 
Advanced concepts on how humans and the environment affect one another. 
Prerequisites: grad st; Global 461(P) or CES 461(P) or FrshWtr 461(P) or MSP 760(P); admis to Master of Sustainable Peacebuilding program 
Current Offerings: https://catalog.uwm.edu/course-search/

MSP 770 Preparing for Sustainable Peacebuilding and Social Change
3 cr. Graduate. 
Analytical framework for understanding the key social dynamics that affect sustainable social change. 
Prerequisites: grad st; admis to Master of Sustainable Peacebuilding prog or cons instr 
Course Rules: Counts as repeat of grad cr in Global 561. 
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

MSP 771 Holistic Peacebuilding Practice
3 cr. Graduate. 
Analytical tools and intervention skills for promoting sustainable and systemic social change in a variety of social contexts. 
Prerequisites: grad st; MSP 770(P); admis to MSP prog or cons instr. 
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

MSP 780 Transdisciplinary Research Methods and Information Literacy
2-3 cr. Graduate. 
Transdisciplinary research methods and the processes employed to apply qualitative and quantitative information to the practice of sustainable peacebuilding. 
Prerequisites: grad st; admis to Master of Sustainable Peacebuilding prog or cons instr. 
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

MSP 781 Innovation, Evaluation, and Adaptive Management
3 cr. Graduate. 
Learning-enabled approaches for monitoring, assessment, and evaluation for adaptive management in complex systems. 
Prerequisites: grad st; admis to Master of Sustainable Peacebuilding prog or cons instr. 
Current Offerings: https://catalog.uwm.edu/course-search/

MSP 785 Fundamentals of Project Management for Sustainable Peacebuilding
3 cr. Graduate. 
Introduction to strategies and effective practices for planning, implementation, management and monitoring of field projects in sustainable peacebuilding. 
Prerequisites: Graduate status, admission to Master of Sustainable Peacebuilding program or consent of instructor. 
Current Offerings: https://catalog.uwm.edu/course-search/
Theatre (THEATRE)

THEATRE 100 Introduction to the Theatre
3 cr. Undergraduate.
Introduction to the theatre as a form of artistic, social and human expression from point-of-view of both theatre audience and theatre artist.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 101 Acting for Non-majors
3 cr. Undergraduate.
An introduction to basic acting techniques of personalization, focus, and scene study explored through participatory and collaborative exercises and assignments.
Prerequisites: Non-Theatre major.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 108 Introduction to Musical Theatre
3 cr. Undergraduate.
Techniques of acting and singing in the performance of musical theatre. Classroom exercises, lectures, and classroom performance assignments.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 110 Fundamentals of the Actor's Process
3 cr. Undergraduate.
Basic acting techniques of personalization, focus of attention, theatricality and scenic truth explored through exercises, improvisation, development of ensemble and solo and partnered performance
Prerequisites: Theatre major or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 111 Theatre Games
3 cr. Undergraduate.
An introduction to a wide variety of improvisations and games which are designed to free and channel the self expression of performers and non-performers.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 120 Performance and Popular Culture
3 cr. Undergraduate.
Elements of theatre in live performance, television programs, periodical and television advertisements, film, and music video.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/
THEATRE 150 Multicultural America:
3 cr. Undergraduate.
Cross cultural study of US ethnic and racial identities through materials
drawn from a variety of theatrical arts practices.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: A, CD
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 202 Theatre Practicum
1-4 cr. Undergraduate.
Practical work on live performance productions. Credit earned by serving
on publicity, house, stage, sound, light, or costume crews, or by stage
managing or performing.
Prerequisites: grade of C or better in THEATRE 214(P) or
THEATRE 225(P); or cons instr.
Course Rules: May be retaken to max of 4 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 204 Theatre and Social Change
3 cr. Undergraduate.
Introduction to the study, methodologies, and practice of participatory
theatre including happenings, environmental theatre, therapeutic theatre,
and celebratory theatre.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 213 Play Analysis
3 cr. Undergraduate.
Methods of analysis of the dramatic text for production; the elements of
a play through discussion and written analysis of selected works.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 214 Stagecraft
4 cr. Undergraduate.
Principles and practices of theatrical construction techniques for scenery
and props, lighting and sound installation emphasizing safety and
craftsmanship. Requires scheduled work in production studios under
faculty supervision.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 215 Properties Production
3 cr. Undergraduate.
Introductory properties shop/management artisan skills with basic
construction and finishing techniques for stage properties.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 218 Computer Modeling and Graphics for Live Performance
3 cr. Undergraduate.
Practical work on live performance productions. Credit earned by serving
on publicity, house, stage, sound, light, or costume crews, or by stage
managing or performing.
Prerequisites: grade of C or better in THEATRE 214(P) or
THEATRE 225(P); or cons instr.
Course Rules: May be retaken to max of 4 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Summer 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 225 Costume Construction
2 cr. Undergraduate.
Practical work on live performance productions. Credit earned by serving
on publicity, house, stage, sound, light, or costume crews, or by stage
managing or performing.
Prerequisites: grade of C or better in THEATRE 214(P) or cons instr.
Course Rules: Specific computer hardware and/or software is required.
Check with instr for specifics.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 230 Acting 2: Text and Performance
3 cr. Undergraduate.
Basic acting techniques in realism and extended realism through scene
work and exercises exploring dramatic action, focus of attention and
script analysis.
Prerequisites: a grade of C or better in THEATRE 110(P) or consent of
instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 231 Voice and Speech for Effective Communication
3 cr. Undergraduate.
Focus on the development of a more open, resonant, and flexible
speaking voice for everyday and professional use.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 236 Theatre Production and Design
3 cr. Undergraduate.
Design process exploring styles, methods, and presentation for scenery
and costumes in traditional and non-traditional theatre.
Prerequisites: none.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
### THEATRE 260 Storytelling:

3 cr. Undergraduate.
Development of skills to locate, analyze, and tell stories from multicultural sources and ranging from personal experience to myths and legends.

**Prerequisites:** none, except as required for specific topic.
**Course Rules:** May be retaken w/chg in topic to max of 3 sem.
**General Education Requirements:** A

**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 275 Performing Arts Management

3 cr. Undergraduate.
Exploration of stage and theatre management processes including rehearsal and production management techniques and introductory management principles for non-profit theatre

**Prerequisites:** none.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 285 Costume Construction 2

3 cr. Undergraduate.
Construction of costumes; advanced tailoring techniques, practical application of classwork in costume shop

**Prerequisites:** a grade of C or better in THEATRE 225(P) or consent of instructor.

**Last Taught:** Fall 2019, Spring 2018, Spring 2017, Spring 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 301 Theatrical Millinery

3 cr. Undergraduate.
Projects in costume accessory construction. Emphasis on millinery and hat blocking.

**Prerequisites:** Theatre 225(P) or cons instr.

**Last Taught:** Fall 2016, Fall 2014, Fall 2012, Fall 2010.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 303 Introduction to Design and Production for Performance

3 cr. Undergraduate.
Exploring design concepts for performance / theatrical production environments. Emphasis on different production styles, creativity, and design collaboration.

**Prerequisites:** none.
**General Education Requirements:** A

**Last Taught:** Spring 2017, Fall 2015, Spring 2015, Fall 2014.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 304 Costume Design

3 cr. Undergraduate.
Designing the play, understanding the basic principles of costume design. Rendering technique, color theory and the elements of design are covered.

**Prerequisites:** none

**Last Taught:** Spring 2018, Spring 2016, Spring 2014, Spring 2012.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 305 The Theatrical Experience:

3 cr. Undergraduate.
Performances, demonstrations, and lectures focusing on specific aspects of theatrical production. Attendance at live theatrical performances required

**Prerequisites:** none.
**Course Rules:** May be retaken w/chg in topic to 9 cr max.
**General Education Requirements:** A

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 308 Advanced Makeup:

3-6 cr. Undergraduate.
Advanced Makeup techniques for stage and film.

**Prerequisites:** a grade of C or better in THEATRE 224(P) or consent of instructor.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Spring 2019, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 311 Advanced Improvisation

3 cr. Undergraduate.
Advanced study in a wide variety of long-form acting improvisations designed to free and channel self expression of performers and non-performers.

**Prerequisites:** Theatre 111(P) or cons instr. Improvisational performance attendance required.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 314 Special Effects for Stage Scenery

3 cr. Undergraduate.
Practical design, fabrication and installation of scenic effects emphasizing the use of pneumatics, electric motors and sensors.

**Prerequisites:** THEATRE 214(P) or consent of instructor

**Last Taught:** Fall 2019, Fall 2017, Fall 2014, Fall 2012.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 315 Advanced Properties Production

3 cr. Undergraduate.
Exploring advanced prop making processes and products for the stage and studio.

**Prerequisites:** THEATRE 215(P) or consent of instructor.

**Last Taught:** Fall 2015, Fall 2013, Fall 2011, Fall 2009.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 318 Scene Design

3 cr. Undergraduate.
Development of design sensibility for stage set design from script analysis, research, and initial concept to model making of final design.

**Prerequisites:** Theatre 236(P) or cons instr.

**Last Taught:** Spring 2019, Spring 2016, Spring 2014, Spring 2013.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

### THEATRE 319 Scenic Painting

3 cr. Undergraduate.
Development of skills in stage painting techniques for scenery and properties.

**Prerequisites:** none.

**Last Taught:** Spring 2020, Spring 2017, Spring 2015, Spring 2013.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
THEATRE 320 Arts and Social Entrepreneurship
3 cr. Undergraduate.
Exploring the development of communities through cultural and performing practices through community-based work in the arts.
Prerequisites: Theatre 204(P) or 260(460)(P) or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 321 The Theatre: Beginnings Through Realism
3 cr. Undergraduate.
Study of the development of theatre art and its practice, performance, and scripts, from classical antiquity through the 19th century.
Prerequisites: soph st; satisfaction of GER OWC-A req.
General Education Requirements: A, OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 322 The Theatre: Modern and Contemporary Period
3 cr. Undergraduate.
Study of the development of theatre art and its practice, performance, and scripts from 1900 to the present.
Prerequisites: soph st; satisfaction of GER OWC-A req.
General Education Requirements: A, OWCB
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 323 Special Topics in World Theatre:
3 cr. Undergraduate.
Exploration of theatre and ritual in cultures and countries around the world.
Prerequisites: May be retaken with chg in topic to 6 cr max; Theatre 321(P) or 322(P) or cons instr.
Last Taught: Spring 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre
3 cr. Undergraduate.
Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions.
Prerequisites: jr st.
Course Rules: Counts as repeat of LACS 324 or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another.
General Education Requirements: A, CD
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 325 History of Costume
3 cr. Undergraduate.
Study of costume and fashion from Egyptians to present. Emphasis on the sociological and cultural changes in patterns of dress and behavior.
Prerequisites: none.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 327 The Digital Theatre - Pocket Tech
3 cr. Undergraduate.
Using everyday technology to explore burgeoning digital storytelling techniques fundamental to theatre arts.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 330 Acting Topics:
3 cr. Undergraduate.
Exploration of advanced acting techniques through various topic changes.
Prerequisites: May be retaken with change in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 332 Tailoring
3 cr. Undergraduate.
Construction of costume: tailoring techniques with an emphasis on textiles, cutting, fitting, and alterations.
Prerequisites: Theatre 285(P).
Last Taught: Spring 2015, Spring 2013, Spring 2011, Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 333 Sound Production and Digital Editing for Stage and Studio
3 cr. Undergraduate.
Exploration of sound recording and playback techniques for live performance including digital editing and computer based show control systems.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 338 Lighting Production
3 cr. Undergraduate.
Hands-on exploration of seeing, making, and controlling light with emphasis on its practical application in live performance, video/film, architecture, and experiential design.
Prerequisites: none.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 339 Stage Combat
3 cr. Undergraduate.
Basic techniques of unarmed stage combat focusing on safety, partnering skills, and technical proficiency.
Prerequisites: none.
Last Taught: Fall 2009.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 343 Patternmaking and Draping
3 cr. Undergraduate.
Exploration of flatpattern drafting and fabric draping for stage costumes.
Prerequisites: a grade of C or better in THEATRE 285(P).
Last Taught: Spring 2020, Fall 2017, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 344 Draping
3 cr. Undergraduate.
Introduction to principles of draping techniques applied to stage costumes.
Prerequisites: a grade of C or better in THEATRE 343(P).
Last Taught: Fall 2015, Fall 2013, Spring 2012, Spring 2011.
Current Offerings: https://catalog.uwm.edu/course-search/
THEATRE 357 Digital Audio Workstations for Stage and Studio
3 cr. Undergraduate.
Explore computer technology to create, manipulate, edit and render digital audio for performance and recording. Music, sound effects, synthesis, and MIDI are focus topics.
Prerequisites: none, online course.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 359 Playwriting
3 cr. Undergraduate/Graduate.
Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion.
Prerequisites: junior standing and a grade of C or better in THEATRE 213(P); or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 359G Playwriting
3 cr. Undergraduate/Graduate.
Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion.
Prerequisites: junior standing and a grade of C or better in THEATRE 213(P); or consent of instructor.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 360 Theatre Practices
1-6 cr. Undergraduate.
Applied theatre practices and/or performance projects, that are developed through research, service-learning or in community settings.
Prerequisites: none.
Course Rules: May be retaken w/ chg in topic to max of 6 cr.
Last Taught: Spring 2020, Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 380 Stage Management
3 cr. Undergraduate.
Development of skills for the successful management of theatrical productions from auditions through rehearsal and performance.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 400 Foundations
1 cr. Undergraduate.
Exercises from various disciplines to stretch, energize, and prepare for the day’s work in acting and production.
Prerequisites: Admins. to Theatre BFA Acting track.
Course Rules: May be retaken for cr.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 401 Fabric Painting and Dyeing
3 cr. Undergraduate.
Study and practical work in dyeing and painting fabrics for stage purposes.
Prerequisites: a grade of C or better in THEATRE 215(P) or THEATRE 225(P); or consent of instructor.
Last Taught: Fall 2015, Fall 2013, Fall 2011, Spring 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 407 Contemporary Theatre Performance:
1-3 cr. Undergraduate.
Study of plays and current productions, playwrights, directors, actors, and theatrical practices in selected cities. Credits determined in consultation with instructor.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: A
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 408 Acting in Musical Theatre
3 cr. Undergraduate.
Scene study in musical theatre, developing character through song, movement and text.
Prerequisites: Theatre 110(P) or cons instr.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2011.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 410 Stage Directing
3 cr. Undergraduate/Graduate.
Basic skills of staging, play analysis, rehearsal technique, and production organization.
Prerequisites: jr st; Theatre 213(P) & 230 (P); or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 410G Stage Directing
3 cr. Undergraduate/Graduate.
Basic skills of staging, play analysis, rehearsal technique, and production organization.
Prerequisites: jr st; Theatre 213(P) & 230 (P); or cons instr.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 412 Career Preparation and Development
1-2 cr. Undergraduate.
Explore theatre careers, research job search methods/ processes- portfolio, resume, webpages- for job interviews/auditions and create a long-range career plan.
Prerequisites: none.
Course Rules: May not be retaken for credit. Production BFA majors enroll for 2 cr., Performance BFA majors enroll for 1 cr.
Last Taught: Fall 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 415 Casting and Molding for the Stage
3 cr. Undergraduate.
Study of one-part and two-part molding and casting applications including sculpting for mask making and stage properties.
Prerequisites: a grade of C or better in THEATRE 215(P) or THEATER 225(P); or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 418 Lighting Studio
3 cr. Undergraduate.
Exploration of elements and principles of lighting design and creative design process.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
THEATRE 430 Stage Voice and Speech 1
3 cr. Undergraduate.
Exploration of vocal anatomy, breath and breath support for speech, individual vocal habits and the actor's vocal warm-up.
Prerequisites: Admis to Theatre BFA Acting track.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 431 Stage Voice and Speech 2
3 cr. Undergraduate.
Continuation of THEATRE 430.
Prerequisites: a grade of C or better in THEATRE 430(P).
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 432 Advanced Theatre Practicum
1-6 cr. Undergraduate.
Advanced level practical work on live stage or studio events in any area of production, design, management or performance.
Prerequisites: junior standing or consent of instructor.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 435 Production Management
3 cr. Undergraduate.
Theatre management processes utilizing leadership, problem-solving, and project management skills for budgeting, scheduling, personnel and facility management, and season planning.
Prerequisites: a grade of C or better in THEATRE 275(P) or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 437 Sound Design and Digital Editing
3 cr. Undergraduate.
Skill development in designing sound and using digital editing systems to create sound effects, sound-scaping and basic music composition for storytelling on the stage.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 440 Physical Performance 1
3 cr. Undergraduate.
Training and exercises to create physical awareness, skills, and presence in space for performance through movement, improvisation, and sensory/composition work.
Prerequisites: Admitted to major in the Theatre BFA acting track and a grade of C or better in THEATRE 230(P); or consent of instructor.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 441 Physical Performance 2
3 cr. Undergraduate.
Physical exercises, improvisation, and text work to deepen the connection between actor and imagination utilizing full bodywork for creating character and dramatic action.
Prerequisites: admitted to the major in the Theatre BFA acting track and a grade of C or better in THEATRE 440(P).
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 443 Pattern Making II
3 cr. Undergraduate.
Continuation of Pattern Making with an emphasis on period styles and menswear patterns.
Prerequisites: a grade of C or better in THEATRE 343(P) or consent of instructor.
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2004.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 448 How to be a Teaching Artist
3 cr. Undergraduate.
Understanding and utilizing creative drama and other arts-in-education techniques to enhance experiential learning in classrooms and other educational venues.
Prerequisites: soph st or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 470 Acting Technique 3
3 cr. Undergraduate.
Development of basic acting skills and application to texts drawn from American realism. Emphasis on psycho-physical technique, dramatic action, personalization, expressive use of self.
Prerequisites: admitted to the Theatre BFA acting track and a grade of C or better in THEATRE 230(P); or consent of instructor.
Last Taught: Fall 2019, Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 471 Acting Technique 4
3 cr. Undergraduate.
Fundamentals of acting in classical texts.
Prerequisites: Admis to Theatre BFA acting track, Theatre 470(P).
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 472 Performance Capstone
2-4 cr. Undergraduate.
Creation of performance under faculty supervision.
Prerequisites: a grade of C or better in THEATRE 230(P) or THEATRE 260(P); or consent of instructor.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/
THEATRE 473 Theatre in Elementary Education
3 cr. Undergraduate.
Tuition experiences for growth and development of elementary school children. Discussion, lectures, and experimentation, analysis of materials, age groups, and situations. Teaching of children's theatre classes.
Prerequisites: C or better in Theatre 448(P), soph st, or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 474 Theatre in Secondary Education
3 cr. Undergraduate.
Methods and philosophy of teaching theatre in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of Theatre classes.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 475 Rehearsal and Performance:
2-3 cr. Undergraduate.
Practitica experience in the preparation, rehearsal, stage management or performance of theatrical productions.
Prerequisites: cons instr.
Course Rules: May be retaken for credit to max of 12 cr. Credit granted per production assignment.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 480 Leadership Skills for Theatre Management
3 cr. Undergraduate.
Development of management skills for organizing and running theatrical productions by understanding personal leadership styles, communication techniques, conflict resolution, and problem-solving within the artistic process.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 484 Field Work in Theatre
1-3 cr. Undergraduate/Graduate.
Theatre education field experiences in schools, agencies, and institutions.
Prerequisites: Theatre majors; Thr BA 473(P) or 474(P); & cons instr.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 484G Field Work in Theatre
1-3 cr. Undergraduate/Graduate.
Theatre education field experiences in schools, agencies, and institutions.
Prerequisites: Theatre majors; Thr BA 473(P) or 474(P); & cons instr.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 485 Elementary Level Student Teaching in Theatre
2-6 cr. Undergraduate/Graduate.
Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development.
Prerequisites: jr st & admis to Theatre teaching cert & cons instr
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 485G Elementary Level Student Teaching in Theatre
2-6 cr. Undergraduate/Graduate.
Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development.
Prerequisites: jr st & admis to Theatre teaching cert & cons instr
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 486 Secondary Student Teaching in Theatre
2-6 cr. Undergraduate/Graduate.
Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development.
Prerequisites: jr st; admis to Theatre teaching cert; Theatre 484(P) & writ cons instr.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 486G Secondary Student Teaching in Theatre
2-6 cr. Undergraduate/Graduate.
Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development.
Prerequisites: jr st; admis to Theatre teaching cert; Theatre 484(P) & writ cons instr.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 490 Topics in Theatre:
1-4 cr. Undergraduate/Graduate.
Various forms of theatre processes or theatrical presentation/production. Specific credits and add'l prereq's announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st; see Schedule of Classes for add'l prereq's.
Course Rules: May be retaken w/chg in topic to max of 8 cr.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 490G Topics in Theatre:
1-4 cr. Undergraduate/Graduate.
Various forms of theatre processes or theatrical presentation/production. Specific credits and add'l prereq's announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st; see Schedule of Classes for add'l prereq's.
Course Rules: May be retaken w/chg in topic to max of 8 cr.
Last Taught: Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 497 Study Abroad in Theatre
1-12 cr. Undergraduate.
Interdisciplinary and foundational exploration of world theatre through exchange programs, performance tours, or foreign cultural study.
Prerequisites: acceptance for Study Abroad Prog. Foreign language proficiency required for some programs.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
THEATRE 530 Stage Voice and Speech 3
3 cr. Undergraduate.
Vocal exploration through analysis of verse and heightened language, recorded voice work, and beginning dialects for the stage.
Prerequisites: Theatre 431(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 531 Stage Voice and Speech 4
3 cr. Undergraduate.
Advanced dialects for stage utilizing individual research and presentation of a dialect focusing on advanced voice and speech work.
Prerequisites: Theatre 530(P).
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 540 Physical Performance 3
3 cr. Undergraduate.
Development of and training in extended physical theatre techniques drawn from current performance research and text study.
Prerequisites: Theatre 441(P).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 541 Physical Performance 4
3 cr. Undergraduate.
Exploration of movement and acting challenges through rehearsal and performance of new play texts.
Prerequisites: Theatre 540(P).
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 570 Acting 5
3 cr. Undergraduate.
Scene work in pre-modern texts.
Prerequisites: Admis to Theatre BFA acting track, Theatre 471(P)
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 571 Acting 6
3 cr. Undergraduate.
Contemporary Performance Techniques. Work in the development and performance of new and contemporary material through ensemble work and physical theatre techniques.
Prerequisites: Admis to Theatre BFA acting track; Theatre 570(P).
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 575 Advanced Studio
1-6 cr. Undergraduate.
Advanced practical application of all phases of production, rehearsal, and performance.
Prerequisites: Theatre 575(P) or 475(P); & cons instr.
Course Rules: May be retaken to max of 12 cr. Credit granted per production assignment.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 681 Seminar in Dramatic Literature:
3 cr. Undergraduate.
Discussion and research in a specific area of dramatic literature.
Prerequisites: cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 685 Internship in Professional Theatre
1-6 cr. Undergraduate/Graduate.
Engagement with a professional Theatre in individual discipline area.
Prerequisites: jr st.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 685G Internship in Professional Theatre
1-6 cr. Undergraduate/Graduate.
Engagement with a professional Theatre in individual discipline area.
Prerequisites: jr st.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 689 Independent Study-Stage Management
1-6 cr. Undergraduate/Graduate.
Individualized program of supervised study in stage management. Work on productions in stage management is required.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 689G Independent Study-Stage Management
1-6 cr. Undergraduate/Graduate.
Individualized program of supervised study in stage management. Work on productions in stage management is required.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2019, Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 690 Independent Study--Make-Up
1-6 cr. Undergraduate.
Individual program of supervised study in make-up.
Prerequisites: jr st, writ cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2018, Fall 2015, Spring 2014, Spring 2012.
Current Offerings: https://catalog.uwm.edu/course-search/
THEATRE 691 Independent Study-Acting
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in acting. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2017, Spring 2017. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 691G Independent Study-Acting
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in acting. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2017, Spring 2017. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 692 Independent Study-Technical Theatre, Scene Design and Lighting
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in technical theatre, scene design, or lighting. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Spring 2019, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 692G Independent Study-Technical Theatre, Scene Design and Lighting
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in technical theatre, scene design, or lighting. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Spring 2019, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 693 Independent Study-Costumes
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in costumes. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2019, Spring 2019. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 693G Independent Study-Costumes
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in costumes. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2019, Spring 2019. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 694 Independent Study-Directing
1-4 cr. Undergraduate/Graduate. 
Individual program of supervised study in directing. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2015, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 694G Independent Study-Directing
1-4 cr. Undergraduate/Graduate. 
Individual program of supervised study in directing. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2015, Fall 2013. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 695 Independent Study-History, Literature, and Criticism
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in history, literature, and criticism. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Spring 2020, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 695G Independent Study-History, Literature, and Criticism
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in history, literature, and criticism. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Spring 2020, Fall 2018. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 696 Independent Study-Playwriting
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in playwriting. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2017, Spring 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 696G Independent Study-Playwriting
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in playwriting. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2017, Spring 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 697 Independent Study-Theatre Education and Theatre for Young Audiences
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in theatre education and children's theatre. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2019, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/

THEATRE 697G Independent Study-Theatre Education and Theatre for Young Audiences
1-6 cr. Undergraduate/Graduate. 
Individual program of supervised study in theatre education and children's theatre. 
Prerequisites: jr st & cons instr. 
Course Rules: May be retaken to max of 9 cr. 
Last Taught: Fall 2019, Fall 2016. 
Current Offerings: https://catalog.uwm.edu/course-search/
THERREC 200 Psycho/Social Aspects of Leisure  
3 cr. Undergraduate.  
Study of the psychological and sociological aspects of leisure participation.  
Prerequisites: none.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 202 Disability: Society and the Person  
3 cr. Undergraduate.  
Goals are to introduce and sensitize students to individuals with disabilities and to enable students to understand the psychological and social impact of disability.  
Prerequisites: none.  
General Education Requirements: SS  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 203 Therapeutic Recreation Process  
3 cr. Undergraduate.  
Study of Therapeutic Recreation (TR) process including the values and underpinning of practice, and the inter-relationships between TR, health care and human service professionals.  
Prerequisites: none.  
Course Rules: Counts as a repeat of TherRec 390 with same topic. Course taught completely online.  
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 2086 Therapeutic Recreation Assessment and Documentation  
1-6 cr. Undergraduate.  
Study and practice of therapeutic recreation assessment and documentation techniques.  
Prerequisites: none.  
Counts as a repeat of TherRec 390 with same topic. Course taught completely online.  
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 209X Independent Study - Therapeutic Recreation:  
1-6 cr. Undergraduate.  
Individual program of supervised study in the emphasis area of the instructor's expertise.  
Course Rules: May be retaken to max of 9 cr.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective  
3 cr. Undergraduate.  
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.  
Prerequisites: soph st or cons instr.  
Course Rules: BMS(CL Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/THERREC 245 are jointly offered; they count as repeats of one another.  
General Education Requirements: CD, SS  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 297 Study Abroad - Therapeutic Recreation:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.  
Prerequisites: Acceptance to Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 298 Independent Study - Therapeutic Recreation:  
3-6 cr. Undergraduate.  
Individual program of supervised study in the emphasis area of the instructor's expertise.  
Course Rules: Intervention, strategies, and service delivery. May be retaken w/chg in topic.  
Last Taught: Spring 2020, Fall 2019.  
Current Offerings: https://catalog.uwm.edu/course-search/ 

THERREC 300 Therapeutic Recreation Assessment and Documentation  
3 cr. Undergraduate.  
Study and practice of therapeutic recreation assessment and documentation techniques.  
Prerequisites: none.  
Current Offerings: https://catalog.uwm.edu/course-search/
THERREC 301 Program Development and Evaluation in Therapeutic Recreation
3 cr. Undergraduate.
Study of systematic program design and evaluation techniques.
Prerequisites: jr st or TherRec major or cons instr.
Last Taught: Fall 2005, Fall 2004, Fall 2003, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 303 Inclusive and Disability Programs in the Community
3 cr. Undergraduate.
Study of concepts and practices related to the delivery of community programs for individuals with disabilities.
Prerequisites: none.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 308 Therapeutic Recreation in Physical Rehabilitation and Behavioral Health
3 cr. Undergraduate.
Therapeutic recreation services for individuals with physical disabilities and psychiatric disorders.
Prerequisites: none.
Course Rules: Not open for cr for students with cr in TherRec 304(ER) or TherRec 305(ER).
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 309 Therapeutic Recreation in Pediatrics and Gerontology
3 cr. Undergraduate.
Therapeutic recreation services for children/adolescents and elderly individuals.
Prerequisites: junior standing or consent of instructor.
Course Rules: Not open for cr for students with credit in THERREC 306 or THERREC 307.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 310 Facilitation Techniques in Therapeutic Recreation
3 cr. Undergraduate.
Study of various facilitation techniques used in the field of Therapeutic Recreation (TR). Specific emphasis is placed on Leisure Education as a unique modality.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 390 Topics in Therapeutic Recreation:
1-3 cr. Undergraduate.
Topics of current interest in therapeutic recreation. Specific credits and additional prerequisites will be announced in the Schedule of Classes whenever the course is offered.
Prerequisites: none.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 399 Independent Study in Therapeutic Recreation
1-3 cr. Undergraduate.
Individualized experience which enables the student to study current topics of interest to the therapeutic recreation specialist.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken to max of 3 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 400 Issues and Trends in Therapeutic Recreation (TR)
3 cr. Undergraduate.
Examination of the most current issues and trends in the field and advancement of the profession.
Prerequisites: TherRec 308(P) or cons instr.
Last Taught: Summer 2020, Fall 2019, Summer 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

THERREC 401 Therapeutic Recreation Internship and Seminar
12 cr. Undergraduate.
Therapeutic recreation field instruction at approved agencies for forty hours per week for a full semester. Seminar to prepare students for professional involvement.
Prerequisites: must have completed all course work in the TherRec major.
Current Offerings: https://catalog.uwm.edu/course-search/

Translation and Interpreting (TRNSLTN)

TRNSLTN 201 Introduction to Translation and Interpreting Studies
3 cr. Undergraduate.
Linguistic and cultural aspects of globalization analyzed alongside emerging practices in various language service professions/specializations; prevailing modes of multilingual communication and cross-cultural interaction.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 400 Consecutive Interpreting
3 cr. Undergraduate.
Professional protocols and practices of different modalities of consecutive interpreting; exercises for improvement of split-attention, short-term memory and information organization; ethical principles of interpreting profession.
Prerequisites: junior standing and sixth semester of a foreign language.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 409 Seminar in Literary and Cultural Translation
3 cr. Undergraduate.
Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.
Prerequisites: junior standing and sixth semester or equivalent of a foreign language.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 410 Comparative Systems for Translation
3 cr. Undergraduate.
Comparative systems in society; how those systems relate to the field of translation; how to make informed translation choices based on subtle differences in systems.
Prerequisites: junior standing and satisfaction of Oral and Written Communication Part A GER.
General Education Requirements: HU, OWCB
Current Offerings: https://catalog.uwm.edu/course-search/
TRNSLTN 411 Ethics and Procedures in Interpreting
3 cr. Undergraduate.
Fundamentals of providing spoken language interpreting services in various settings.
Prerequisites: sixth semester of any language or consent of instructor.
Last Taught: Fall 2018, Fall 2016, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 422 Simultaneous Interpreting
3 cr. Undergraduate.
The field and practice of simultaneous interpretation, covering the historical development, cognitive processes and how SIMS is used in other contexts.
Prerequisites: junior standing and consent of instructor.
Course Rules: Counts as repeat of GLOBAL 499 w/same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 427 Project Management in Translation
3 cr. Undergraduate.
Principles of project management and quality assurance in translation industry standards and techniques of effective project management for a variety of language service projects.
Prerequisites: junior standing.
Last Taught: Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 428 Editing for Translation
3 cr. Undergraduate.
Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.
Prerequisites: junior standing and consent of Translation Program Director.
Last Taught: Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 430 Internship in Translation/Interpreting
3 cr. Undergraduate.
Internship offering on-the-job experience to students with a background in translation.
Prerequisites: junior standing and consent of Translation Program Director.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 465 Introduction to Translation: English to French
3 cr. Undergraduate/Graduate.
Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.
Prerequisites: junior standing, a grade of B or better in FRENCH 325(P), and FRENCH 427(P), or consent of instructor.
Course Rules: FRENCH 465 & TRNSLTN 465 are jointly offered; they count as repeats of one another. Counts as repeat of FRENCH 499 with similar topic.
Last Taught: Fall 2008.
Current Offerings: https://catalog.uwm.edu/course-search/
TRNSLTN 700 Consecutive Interpreting
3 cr. Graduate.
Professional protocols and practices of different modalities of consecutive interpreting; exercises for improvement of split-attention, short-term memory and information organization; ethical principles of interpreting profession.
Prerequisites: graduate standing and consent of Translation Program Director.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 702 Introduction to Translation: English to Spanish
3 cr. Graduate.
Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.
Prerequisites: graduate standing and admitted to the Translation Program.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2010.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 703 Introduction to Translation: Japanese to English
3 cr. Graduate.
Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts.
Prerequisites: graduate standing and admitted to the Translation Program.
Last Taught: Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 704 Introduction to Translation: Arabic to English
3 cr. Graduate.
Translating texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies; proofreading and editing own work.
Prerequisites: graduate standing and admitted to the Translation Program, or consent of instructor.
Last Taught: Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 706 Introduction to Translation: French to English
3 cr. Graduate.
Introduction to basic skills necessary to professional translation. Translation of texts from French into English. Summarizing texts. Sight translation.
Prerequisites: graduate standing and admitted to the Translation Program, or consent of instructor.
Course Rules: FRENCH 706 and TRNSLTN 706 are jointly offered; they count as repeats of one another. Counts as repeat of FRENCH 415/ TRNSLTN 415 if taken for grad credit.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 707 Introduction to Translation: Spanish to English
3 cr. Graduate.
Basic skills necessary for professional translation. Translation of texts from Spanish into English. Summarizing texts; sight translation.
Prerequisites: graduate standing and SPANISH 308(P) or equivalent.
Course Rules: Counts as a repeat of SPANISH 707. Not open for cr to students w/ grad cr in SPANISH 347.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 708 Introduction to Translation: German to English
3 cr. Graduate.
Advanced skills for German to English translation including texts encountered in 'real world;' document terminology; translation strategies and tools; researching parallel texts; translation history and methodology.
Prerequisites: graduate standing.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 709 Seminar in Literary and Cultural Translation
3 cr. Graduate.
Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.
Prerequisites: graduate standing.
Course Rules: MALLT 709 and TRNSLTN 709 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 710 Comparative Systems for Translation
3 cr. Graduate.
Comparative systems in society; how those systems relate to field of translation; how to make informed translation choices based on subtle differences in systems.
Prerequisites: graduate standing.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 711 Ethics and Procedures in Interpreting
3 cr. Graduate.
Fundamentals of providing spoken language interpreting services in various settings.
Prerequisites: graduate standing and admitted to the Translation Program, or consent of instructor.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 712 Seminar in Advanced Translation: English to Spanish
3 cr. Graduate.
Comparative study of Spanish and English syntax; advanced translation (English to Spanish) of texts from the humanities, social and political sciences, technical writing, advertising.
Prerequisites: graduate standing and admitted to the Translation Program.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 713 Seminar in Advanced Translation: Japanese to English
3 cr. Graduate.
Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.
Prerequisites: graduate standing and TRNSLTN 703(P).
Last Taught: Spring 2014.
Current Offerings: https://catalog.uwm.edu/course-search/
TRNSLTN 714 Advanced Translation: Arabic to English
3 cr. Graduate.
Translating a variety of texts from Arabic to English, including media articles, political texts, literary and consumer-oriented texts. Identifying and developing translation strategies.
Prerequisites: graduate standing and admitted to the Translation Program, or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 716 Seminar in Advanced Translation: French to English
3 cr. Graduate.
Translation from French into English; advanced grammar, techniques of documentation.
Prerequisites: graduate standing or consent of instructor.
Course Rules: FRENCH 716 and TRNSLTN 716 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 717 Seminar in Advanced Translation: Spanish to English
3 cr. Graduate.
Comparative study of Spanish and English syntax; advanced translation (Spanish to English) of texts from the humanities, social and political sciences, technical writing, advertising.
Prerequisites: graduate standing and SPANISH 707(P), or graduate credit in SPANISH 347(P), or consent of Translation Program Director.
Course Rules: Counts as repeat of SPANISH 717. Not open for cr to students w/ grad cr in SPANISH 447.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 718 Seminar in Advanced German Translation
3 cr. Graduate.
Refinement of translation skills; concentration on specific types of texts.
Prerequisites: graduate standing, a grade of B or better in TRNSLTN 708(P), admitted to the Translation Program, or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 719 Introduction to Translation: Russian to English
3 cr. Graduate.
Translation process as combination of linguistic, cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents.
Prerequisites: graduate standing.
Last Taught: Fall 2018, Fall 2016, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 720 Topics in Translation:
1-3 cr. Graduate.
Advanced and specialized translation skills courses targeting the translation industry.
Prerequisites: graduate standing. Additional prerequisites may be required, depending on topic.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 722 Simultaneous Interpreting
3 cr. Graduate.
Reviewing traditional modes; working with technology-assisted interpretation; and skill building in sight translation, note-taking, summary and the emerging mode SimConsec.
Prerequisites: graduate standing and consent of instructor.
Course Rules: Counts as a repeat of TRNSLTN 720 w/ same topic.
Last Taught: Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 726 Computer-Assisted Translation
3 cr. Graduate.
Terminology and database management for translators. Students should know D2L, Microsoft Office Suite and Explorer, how to compress files, view invisibles, format, navigate file structures.
Prerequisites: graduate standing and completion of an approved introductory graduate level translation course, or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 727 Project Management in Translation
3 cr. Graduate.
Principles of project management and quality assurance in the global language services industry; standards and techniques of effective project management for a variety of language service projects.
Prerequisites: graduate standing and admitted to the Translation Program.
Course Rules: Counts as repeat of TRNSLTN 720 w/ same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 728 Editing for Translation
3 cr. Graduate.
Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.
Prerequisites: graduate standing and consent of Translation Program Director.
Course Rules: Counts as repeat of TRNSLTN720 w/ same title.
Last Taught: Fall 2018, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 729 Seminar in Advanced Translation: Russian to English
3 cr. Graduate.
Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.
Prerequisites: graduate standing and TRNSLTN 719(P), or consent of instructor.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 730 Internship in Translation/Interpreting
3 cr. Graduate.
Internship offering on-the-job experience to students in the graduate program in translation.
Prerequisites: TRNSLTN 726(P); approved graduate level advanced translation course.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/
TRNSLTN 750 Advanced Modes of Interpreting
3 cr. Graduate.
Practice of simultaneous & consecutive interpreting; sight translation; note-taking; technology in interpreting.
Prerequisites: graduate standing and consent of instructor.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 790 Thesis
1-6 cr. Graduate.
Independent study and research on a master's thesis under supervision of the student's advisory committee.
Prerequisites: graduate standing and consent of advisory committee.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 799 Independent Study
1-6 cr. Graduate.
Independent study.
Prerequisites: graduate standing.
Course Rules: Retakable up to 9 cr w/ chg in topic.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 820 Translation Theory
3 cr. Graduate.
The role of translation in development of languages, cultures, and societies; cultural and ideological forces shaping translations; contemporary theories of translation.
Prerequisites: graduate standing.
Course Rules: COMPLIT 820 and TRNSLTN 820 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

TRNSLTN 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 140 Issues in Contemporary Urban Planning
3 cr. Undergraduate.
To examine issues that cities are working on, including sustainability, transportation, economic development, and housing, and learn how planners address these.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 141 Urban Planning Solutions to Contemporary Urban Problems
3 cr. Undergraduate.
Professional role of urban planners in addressing social and economic justice considerations, including fair housing, economic opportunity, and health and environmental disparities.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 292 Current Planning Issues:
3 cr. Undergraduate.
This course provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis.
Prerequisites: soph st.
Course Rules: May be retaken w/content change to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 315 Great Cities of the World: Their Growth and Guided Urbanization
3 cr. Undergraduate.
Great cities of the world, how they were built and developed. Culture, politics and economics, their role in urban planning and the built form.
Prerequisites: soph st.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 316 Planning for the Great Cities of America
3 cr. Undergraduate.
The study of planning and development programs of large American cities and their approaches to growth, change, and decay, with a view to future solutions.
Prerequisites: soph st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 350 Social Justice, Urban Planning and the New Multicultural America
3 cr. Undergraduate.
Examination of historical, sociological, economic and political relationships that impact urban communities. Community and social justice issues are addressed from a planning perspective.
Prerequisites: soph st.
General Education Requirements: CD
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 399 Independent Study
3 cr. Undergraduate.
Independent investigation of issues related to urban planning.
Prerequisites: jr st; cons instr.
Course Rules: May not be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/
URBPLAN 491 Urban Planning Internship
3 cr. Undergraduate.
Practical urban planning experience with a government agency or private firm under the supervision of a working expert and a faculty member.
Prerequisites: sr st & cons instr.
Last Taught: Spring 2020, Fall 2018, Summer 2018, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 497 Study Abroad:
3-12 cr. Undergraduate.
Field study designed to provide relevant course work for a study abroad program in urban planning.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 591 Introduction to Urban Geographic Information Systems (GIS) in Planning
3 cr. Undergraduate.
Use of spatially related information including GIS and land record systems for improved productivity and decision making in service delivery, management, policy planning and land development.
Prerequisites: jr st.
Course Rules: Counts as repeat of UrbPlan 692 with same title.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 630 Budgeting and Finance in the Public Sector
3 cr. Undergraduate/Graduate.
Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.
Prerequisites: sr st or cons instr.
Course Rules: Jointly-offered w/ & counts as repeat of Pub Adm 630(Pol Sci 630).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 630G Budgeting and Finance in the Public Sector
3 cr. Undergraduate/Graduate.
Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.
Prerequisites: sr st or cons instr.
Course Rules: Jointly-offered w/ & counts as repeat of Pub Adm 630(Pol Sci 630).
Last Taught: Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 651 Land Use Planning Practice
3 cr. Undergraduate/Graduate.
Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.
Prerequisites: sr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 651G Land Use Planning Practice
3 cr. Undergraduate/Graduate.
Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.
Prerequisites: sr st.
Last Taught: Fall 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 655 Negotiation Theory and Practice for Urban Planners
3 cr. Undergraduate/Graduate.
Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.
Prerequisites: sr st or cons instr.
Course Rules: Counts as repeat of UrbPlan 692 with same title.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 655G Negotiation Theory and Practice for Urban Planners
3 cr. Undergraduate/Graduate.
Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.
Prerequisites: sr st or cons instr.
Course Rules: Counts as repeat of UrbPlan 692 with same title.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 662 Public Sector Influence on Real Estate Development
3 cr. Undergraduate/Graduate.
Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 662G Public Sector Influence on Real Estate Development
3 cr. Undergraduate/Graduate.
Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 682 Planning for Sustainable Energy
3 cr. Undergraduate/Graduate.
An exploration of the need for sustainable energy, the potential savings in various alternatives, and the roles and specific actions local governments can take.
Prerequisites: sr st.
Last Taught: Fall 2013, Spring 1985.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 682G Planning for Sustainable Energy
3 cr. Undergraduate/Graduate.
An exploration of the need for sustainable energy, the potential savings in various alternatives, and the roles and specific actions local governments can take.
Prerequisites: sr st.
Last Taught: Fall 2013, Spring 1985.
Current Offerings: https://catalog.uwm.edu/course-search/
URBPLAN 684 Planning Local Economic Development
3 cr. Undergraduate/Graduate.
Exploration of the role of planning in the generation, evaluation, and implementation of policies for the development and revitalization of communities.
Prerequisites: jr st & cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 684G Planning Local Economic Development
3 cr. Undergraduate/Graduate.
Exploration of the role of planning in the generation, evaluation, and implementation of policies for the development and revitalization of communities.
Prerequisites: jr st & cons instr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 692 Special Topics in Urban Planning:
1-3 cr. Undergraduate/Graduate.
Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr & any additional prereqs announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 692G Special Topics in Urban Planning:
1-3 cr. Undergraduate/Graduate.
Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr & any additional prereqs announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 701 Introduction to Land Use Planning
1 cr. Graduate.
Introduction to contemporary land use planning emphasizing the four primary tools of development regulation: comprehensive planning, zoning, subdivision regulation, and capital improvement programming.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 702 Introduction to Planning Law
2 cr. Graduate.
Constitutional and statutory authority for and limits on local government regulation of land use. Application of key concepts, including police power, due process, and property.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 705 Government Public Relations and Advocacy
3 cr. Graduate.
External communications by public sector managers and planners for purposes of democratic accountability, fulfilling the mission of the agency, and communicating with elected officials.
Prerequisites: grad st.
Course Rules: UrbPlan 705 & Pub Adm 705 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 711 Planning Theories and Practice
3 cr. Graduate.
Theories about how planners should act in the planning process. History, values, and ethics of the profession; methods of participation; discussion of power in planning.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 720 Urban Development Theory and Planning
3 cr. Graduate.
Spatial, social, economic, and political processes that shape urban development. Application of these processes to formulate and critique urban plans and policies.
Prerequisites: grad st; admis to UrbPlan or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 721 Applied Planning Methods
3 cr. Graduate.
Data sources and analysis techniques for urban planning. Survey design, economic analyses, benefit/cost analysis, market areas; the complexities of public and private data sources.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 740 Data Analysis Methods I
3 cr. Graduate.
Application of quantitative methods most commonly used in urban planning and analysis of the built environment.
Prerequisites: grad st; admis to UrbPlan prog, Arch prog, or cons istr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 751 Introduction to Urban Design and Physical Planning
3 cr. Graduate.
Planning for human needs as related to the physical layout and spatial design of urban environments.
Prerequisites: grad st.
Last Taught: Fall 2018, Fall 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 762 Housing Markets and Public Policy
3 cr. Graduate.
An examination of national and local housing markets, their components and operations, and the impacts on them of a variety of public and private actions.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
URBPLAN 771 Transportation Policy and Planning
3 cr. Graduate.
Seminar on the evolution of urban transportation systems and policies, transportation finance, land use and transportation interactions, and transportation planning and policy evaluation techniques.
Prerequisites: grad st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 772 Pedestrian and Bicycle Transportation
3 cr. Graduate.
Current practices in pedestrian and bicycle transportation, including institutional frameworks, benefits, safety, facility design, network development, demand estimation, suitability assessment, and performance measurement.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 782 Water Resources Planning
3 cr. Graduate.
Emphasis on planning for water across the water cycle (surface, groundwater, wetlands, etc.) integrating non-water resources (habitat, energy, GHG emissions, etc.) in an urban context.
Prerequisites: grad st.
Course Rules: Jointly offered with & counts as repeat of Frshwr 782.
Last Taught: Spring 2020, Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning
3 cr. Graduate.
Use of spatially related information including gis and land records systems for improved productivity and decision making in service delivery, management, policy-planning, and land development.
Prerequisites: grad st.
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 792 Using Urban Geographic Information Systems (GIS) for Planning
3 cr. Graduate.
A hands on course in gis using commercial gis software in a computer laboratory setting to provide experience solving problems related to planning and government.
Prerequisites: grad st; UrbPlan 791(P) or Geog 525(P) or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 793 Applied Projects in Urban Geographic Information Systems
3 cr. Graduate.
Use of a geographic information system (GIS) and actual data from local government to analyze a real world problem or issue requiring spatial data analysis.
Prerequisites: grad st; Urbplan 791 or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 794 Internet Geographic Information Systems (GIS)
3 cr. Graduate.
Seminar on theoretical background and hands-on experience with technologies for developing GIS applications on the Internet, the web, and wireless networks.
Prerequisites: grad st; UrbPlan 792(P) or Geog 625(P); or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 797 Study Abroad:
3-12 cr. Graduate.
Field study designed to provide relevant course work for a study abroad program in urban planning.
Prerequisites: grad st; acceptance to Study Abroad Program
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 810 Planning Policy Analysis
6 cr. Graduate.
Application of planning analysis tools in the context of policy issues involving planners; a case studies approach stressing both policy analysis and the role of the planner.
Prerequisites: grad st; Urbplan 701(P), 702(P), 711(P), 720(P), 721(P), 740(P); or cons instr.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 811 Applied Planning Workshop
3 cr. Graduate.
Application of planning concepts, principles, processes and techniques to a selected realistic problem, issue, or project context at an appropriate scale ranging from the neighborhood to the state.
Prerequisites: grad st; UrbPlan 810(P).
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 841 Seminar in Planning Analysis:
3 cr. Graduate.
Application of one planning methodology: theory, case studies, preparation and presentation of major student project.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 857 Urban Design as Public Policy
3 cr. Graduate.
Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in Arch 749 which is identical to UrbPlan 857.
Last Taught: Fall 2019, Fall 2017, Fall 2015, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/
URBPLAN 858 Studio in Urban Design and Physical Planning
6 cr. Graduate.
Projects and seminars apply urban planning principles to problems of urban design and physical planning to develop students' abilities to evaluate and effectively criticize proposals.
Prerequisites: grad st; Urbplan 751(P) or 857(P).
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 880 Urban Sustainability
3 cr. Graduate.
Urban sustainable challenges and opportunities that impact the built environment. Includes review of traditional and innovative sustainable practices and regulations.
Prerequisites: grad st.
Course Rules: Jointly-offered w/ & counts as repeat of UrbPlan 880.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 6 cr max. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 990 Graduate Thesis
3-6 cr. Graduate.
Thesis under the direction of graduate planning faculty.
Prerequisites: grad st, cons instr; successful completion of comprehensive exam.
Course Rules: May be retaken to max of 6 cr, which can be substituted for elective credits.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 991 Legislative/Administrative Agency Internship
3-6 cr. Graduate.
Research project assignments with elected legislative officials and administrative agencies. Assignments will be cooperatively developed and supported by an integrating seminar discussing both experience and theory in a planning implementation context.
Prerequisites: grad st; cons instr.
Course Rules: May be retaken with change in topic to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 992 Seminar in Urban Planning:
1-3 cr. Graduate.
Advanced study of special topics in urban planning. Specific cr & any additional prereqs announced in schedule of classes whenever course is offered.
Prerequisites: grad st or cons instr.
Course Rules: Retakeable with topic change to max of 6 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

URBPLAN 999 Independent Study
1-3 cr. Graduate.
Individual work in urban planning. Variable content course.
Prerequisites: grad st; cons instr.
Course Rules: Retakeable to max of 9 cr.
Current Offerings: https://catalog.uwm.edu/course-search/

Urban Studies Program (URB STD)

URB STD 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities from an urban studies perspective, with attention to African-, Asian-, Hispanic-, and Native-American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req'd service learning component.
General Education Requirements: CD, SS
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 250 Exploring the Urban Environment
3 cr. Undergraduate.
The nature of the city, the processes that effect change, and the future of the city.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 289 Internship in Urban Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Urban Studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Urb Std or related area; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chr in topic.
Current Offerings: https://catalog.uwm.edu/course-search/
URB STD 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 360 Perspectives on the Urban Scene:
3 cr. Undergraduate.
Topics related to the structure, growth, and change of the urban environment.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 377 Urbanism and Urbanization
3 cr. Undergraduate.
Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.
Prerequisites: jr st & a Sociol 100-level course; or Urb Std 250(P).
Course Rules: Sociol 377 & Urb Std 377 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 450 Urban Growth and Development: A Global View
3 cr. Undergraduate/Graduate.
Urban growth and development from an international perspective.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 450G Urban Growth and Development: A Global View
3 cr. Undergraduate/Graduate.
Urban growth and development from an international perspective.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 489 Internship in Urban Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of urban studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st, 300-level or above course in Urb Std or related area; 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Spring 2020, Summer 2019, Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog, contact CIE Overseas Programs, PER 166, 229-5182.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog, contact CIE Overseas Programs, PER 166, 229-5182.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st & a Sociol 100-level course; or Urb Std 250(P).
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 600 Capstone Seminar in Urban Studies
3 cr. Undergraduate.
Seminar on concepts, methods, and approaches to field of Urban Studies; readings and discussions on urban scholarship; students produce research proposals tailored to their interests.
Prerequisites: sr st; declared Urb Std major.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 625 Law and Urban Poverty
3 cr. Undergraduate/Graduate.
Examination of the relationship between law and poverty, with emphasis upon federal legislative attempts in specific problem areas to alleviate the condition of poverty.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 625G Law and Urban Poverty
3 cr. Undergraduate/Graduate.
Examination of the relationship between law and poverty, with emphasis upon federal legislative attempts in specific problem areas to alleviate the condition of poverty.
Prerequisites: jr st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 639 Health Care and Public Policy in the United States
3 cr. Undergraduate.
Health care policies in the United States.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
URB STD 639G Health Care and Public Policy in the United States
3 cr. Undergraduate/Graduate.
Health care policies in the United States.
Prerequisites: jr st or cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 699 Independent Reading
3 cr. Undergraduate.
Advanced readings and study in Urban Studies.
Prerequisites: jr st; 2.5 gpa; cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations.
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 726 Advanced Methods of Urban Community Development
3 cr. Graduate.
Evaluation of model cities, community health, community corporations, decentralized government. Practice issues: program design, federal policy, consulting, training, participation, decision making process, economic feasibility. Future models.
Prerequisites: grad st & cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 741 Introduction to Metropolitan Development
3 cr. Graduate.
Preview to metropolitan development from an analytical viewpoint. Emphasis on the quantitative tools and conceptual framework necessary to interpret phenomena in a metropolitan area.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 770 The Law and the American City
3 cr. Graduate.
Legal environment of american cities; powers of municipal corporations; relations of municipalities to state and federal governments as controlled by constitutions, statutes, and judicial decisions; special government units; local authorities and bill of rights limitations.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 840 Community Health Planning
3 cr. Graduate.
Examination of processes of planning for delivery of integrated systems of health services to the urban community. Social, economic, political and organization factors are discussed and interrelated.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 841 Health Policy in Urban Society
3 cr. Graduate.
Emerging health policy in modern society. Emphasis on the uncertainty of goals, contending interest, and the urban context.
Prerequisites: grad st.
Last Taught: Fall 2009, Fall 2007, Fall 2004, Fall 2002.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 888 Candidate for Degree
0 cr. Graduate.
Available for master's students who must meet minimum credit load requirement.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 890 Urban Social Institutions Institute:
3 cr. Graduate.
Interdisciplinary study of selected urban and metropolitan problems. Focuses on the analysis of forces shaping the metropolitan milieu.
Prerequisites: grad st or cons UrbInst coord.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 901 Seminar: Urban Social Structure
3 cr. Graduate.
Comprehensive analysis of the emergence and institutionalization of cultural and social patterns in urban settings; and future American urban social structures.
Prerequisites: grad st.
Course Rules: Sociol 901 & Urb Std 901 are jointly-offered & count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 913 Seminar in Urban Political Process
3 cr. Graduate.
Analysis of the forces and processes that shape urban political life, with particular emphasis on patterns of government, political culture, power structures, and civic participation in urban and metropolitan communities.
Prerequisites: grad st.
Course Rules: Pol Sci 913 & Urb Std 913 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 921 Seminar: Research Methods in Urban Studies
3 cr. Graduate.
Methodological orientations and techniques in urban studies: philosophy of science, conceptualization measurements, research designs, data collection, data analysis.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
URB STD 927 Urban Internship
2-3 cr. Graduate.
Advanced application and analysis of theory and acquired skills in supervised agency assignment.
Prerequisites: grad st.
Course Rules: Retakable to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 939 Urban Lifestyle and Holistic Health Care
3 cr. Graduate.
Examines the implications of urban life style for health promotion and protection with special emphasis on developing appropriate health maintenance modalities.
Prerequisites: Urb Std 639(P) or 841(P).
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 945 The Internal Structure of the City
3 cr. Graduate.
The interaction of forces responsible for the evolution of the city as a spatial form and the allocation of economic and social activity within the spatial configuration.
Prerequisites: grad st.
Course Rules: Geog 945 & Urb Std 945 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 965 Municipal Management
3 cr. Graduate.
The political, social, and economic contexts in which the urban manager functions, with an emphasis on managing municipal service delivery and resources.
Prerequisites: grad st.
Course Rules: Pub Adm 965(Pol Sci 965) & Urb Std 965 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 971 Seminar on the History of American Urban Problems
3 cr. Graduate.
Historical analysis of the current problems of housing, race relations, the powers and functions of municipal government, law enforcement, and city planning in the United States.
Prerequisites: grad st.
Course Rules: Hist 971 & Urb Std 971 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 979 Qualitative Research Methods
3 cr. Graduate.
Seminar on logic, design, and presentation of social science research. Inductive and qualitative methods, theory construction, and ethics and procedures of research in natural settings.
Prerequisites: grad st.
Course Rules: Sociol 979 & Urb Std 979 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 980 Growth of Urban Society
3 cr. Graduate.
Seminar in historical, social, and ecological growth and development of urban agglomerations. Comparative framework will be used to examine the urban process.
Prerequisites: grad st.
Course Rules: Hist 980 & Urb Std 980 are jointly offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 981 Argument in Urban Studies Scholarship
3 cr. Graduate.
Reading, recapitulating, critiquing, and writing urban-focused social science argument.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 982 Advanced Quantitative Analysis
3 cr. Graduate.
Evaluation of different methods of generating data and their applications to the analysis of public policies and programs.
Prerequisites: grad st; min. score of 85 on dept diagnostic exam.
Course Rules: Sociol 982 & Urb Std 982 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2019, Fall 2016, Fall 2013, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 983 Contemporary Urban Social Structure and Change
3 cr. Graduate.
Range of research issues conceptualized in terms of major categorical and more intentional social structures that bear on urban social actions.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 987 Urban Social Control
3 cr. Graduate.
Graduate seminar introducing concepts of social control, pervasiveness of social control, and how social control is maintained in urban environments.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 988 Seminar in Urban Social Institutions
3 cr. Graduate.
Historical and sociological forces shaping selected urban issues and social institutions.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

URB STD 990 Master's Research or Thesis
1-3 cr. Graduate.
Research or thesis work for students in the master's program in Urban Studies.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/
URB STD 991 Doctoral Research or Dissertation
1-6 cr. Graduate.
Research or dissertation work for students in the doctoral program in Urban Studies.
**Prerequisites:** grad st.
**Course Rules:** Retakable.
**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

URB STD 998 Independent Study for Master’s Students
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after consultation with a faculty member.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Last Taught:** Spring 2019, Fall 2018, Fall 2016, Spring 2016.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

URB STD 999 Independent Study for Doctoral Students
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after consultation with a faculty member.
**Prerequisites:** grad st.
**Course Rules:** Retakable w/chg in topic to 9 cr max.
**Last Taught:** Spring 2020, Spring 2019, Fall 2018, Spring 2018.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS Collaborative Nursing Program (UWS NSG)**

**UWS NSG 316 Palliative Care**
3 cr. Undergraduate.
A review of palliative care and life limiting illness.
**Prerequisites:** Admission to the RN-BS-Nursing Program or consent of instructor.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 317 Health Assessment**
3 cr. Undergraduate.
Techniques of health history and physical examination to ascertain normal from variations of normal health conditions, in addition cultural and developmental variations are considered.
**Prerequisites:** admis to Collaborative Degree Prog or cons instr.
**Last Taught:** Fall 2019, Summer 2014, Spring 2014, Fall 2013.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 365 Current Topics of Nursing:**
1-6 cr. Undergraduate.
Current thought, issues and research in nursing and implications for practice.
**Prerequisites:** junior standing or consent of instructor.
**Course Rules:** May be retaken with change in topic to max of 12 cr.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 369 Clinical Pharmacology**
3 cr. Undergraduate.
Pharmacological concepts, including legal ethical implications, pharmaco-kinetics, dynamics, -therapeutics, and pharmacogenomics. Major categories of pharmacological agents and associated alternative/complementary and nutritional therapies are examined.
**Prerequisites:** admission to the RN-BS-Nursing Program or consent of instructor.
**Last Taught:** Summer 2020, Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 375 Genetics and Genomics for Health Professionals**
3 cr. Undergraduate.
Relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.
**Prerequisites:** Admis to RN to BSN prog.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 407 Foundations of Professional Nursing Practice**
3 cr. Undergraduate.
Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course.
**Prerequisites:** admis to BSN @ Home Prog or cons instr.
**Course Rules:** Counts as repeat of UWS NSG 341.
**Last Taught:** Summer 2020, Spring 2020.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 411 Chronic Care Management**
3 cr. Undergraduate.
Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.
**Prerequisites:** admis to BSN @ Home prog or cons instr.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 446 Research and Evidence-Based Practice**
3 cr. Undergraduate.
Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.
**Prerequisites:** admis to BSN @ Home prog or cons instr, Math 105(P).
**Course Rules:** Counts as repeat of UWS NSG 434.
**General Education Requirements:** QLB
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Spring 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)

**UWS NSG 447 Leadership and Management**
3 cr. Undergraduate.
Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.
**Prerequisites:** admis to BSN @ Home Prog or cons instr.
**Course Rules:** Counts as repeat of UWS NSG 437.
**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.
**Current Offerings:** [https://catalog.uwm.edu/course-search/](https://catalog.uwm.edu/course-search/)
Women's and Gender Studies (WGS)

WGS 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural and interdisciplinary study of U.S. ethnic and racial identities and experiences, with special attention paid to women's and gender issues.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req'd service learning component.
General Education Requirements: CD, HU
Last Taught: Fall 2019, Fall 2018, Spring 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2019, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 195 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: https://catalog.uwm.edu/course-search/

UWS NSG 448 Mental Health Across the Care Continuum
3 cr. Undergraduate.
This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.
Prerequisites: None.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Spring 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

UWS NSG 453 Information Management and Healthcare Technology
3 cr. Undergraduate.
Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology.
Prerequisites: None.
Course Rules: None.
Current Offerings: https://catalog.uwm.edu/course-search/

UWS NSG 454 Community Health Nursing
3 cr. Undergraduate.
Nursing care of populations and communities to facilitate optimal health outcomes.
Prerequisites: None.
Course Rules: None.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 199 Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Women's Studies faculty or staff member. Written proposal required prior to registration. For additional information, consult Wmns Stds prog atst dir.
Prerequisites: 2.0 GPA; consent of instructor, Women's & Gender Studies program director and Assistant Dean for Student Academic Services.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 200 Introduction to Women's and Gender Studies: A Social Science Perspective
3 cr. Undergraduate.
Interdisciplinary class using gender as category of analysis, in relation to race, class, sexuality, and other categories of difference, to understand how power is structured and identities are socially constructed, from a social sciences perspective.
Prerequisites: None.
Course Rules: May not be taken for cr if WGS 201 or L&S HUM 201 is also taken.
General Education Requirements: SS
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 201 Introduction to Women's and Gender Studies: A Humanities Perspective
3 cr. Undergraduate.
Interdisciplinary class using gender as category of analysis, in relation to race, class, sexuality, and other categories of difference, to understand how power is structured and identities are socially constructed, from a humanities perspective.
Prerequisites: None.
Course Rules: May not be taken for cr if WGS 200 or L&S SS 200 is also taken.
General Education Requirements: HU
Last Taught: Spring 2020, Fall 2019, Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 211 Foundations of Women's and Gender Studies Writing and Research
3 cr. Undergraduate.
Introductory exploration of the meaning and practice of feminist research, with an emphasis on critical reading, writing, and analytical skills.
Prerequisites: WGS(Wmns) 200(P) or 201(P).
Course Rules: None.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 290 Selected Topics in Women's and Gender Studies
3 cr. Undergraduate.
Selected women's and gender studies issues and topics, limited to undergraduates.
Prerequisites: None.
Course Rules: None.
Current Offerings: https://catalog.uwm.edu/course-search/
WGS 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course  
work levels, content, and credits are determined and/or in specially-  
prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 299 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period.  
Requires only dept & assoc dean approval. In exceptional circumstances,  
can be offered in one add'l sem.  
Prerequisites: none; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 300 Gender and Spirituality:  
3 cr. Undergraduate.  
Ways in which gender informs religious and spiritual teachings and  
practices globally and historically; relationship between gender, religious  
beliefs and the constructions of social, cultural, and political realities.  
Prerequisites: junior standing or consent of instructor.  
Course Rules: May be retaken with change in topic to 6 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 301 Queer Theory  
3 cr. Undergraduate.  
An introduction to the interdisciplinary field of queer theory and the  
study of sexuality as a social construction related to gender, race, class,  
citizenship, and other categories of difference.  
Prerequisites: junior standing or consent of instructor.  
Course Rules: May be retaken with change in topic to 6 cr max.  
Last Taught: Spring 2013.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 302 Gendered Bodies:  
3 cr. Undergraduate.  
Feminist interdisciplinary approach to the human body; its life changes  
as socially constructed and conditioned by cultural ideas and practices of  
gender and other differences.  
Prerequisites: junior standing or consent of instructor.  
Course Rules: May be retaken with change in topic to 6 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 303 Feminist Activism and Movements:  
3 cr. Undergraduate.  
Feminist activism and women's social and political movements in a  
global and historical context.  
Prerequisites: junior standing or consent of instructor.  
Course Rules: May be retaken with change in topic to 6 cr max.  
Last Taught: Fall 2018, Fall 2013, Spring 2013, Spring 2009.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 304 Feminist Research Methods:  
3 cr. Undergraduate.  
An interdisciplinary course with focus on women's and gender studies  
research methods, explored through selected topics such as 'Gendered  
Bodies.'  
Prerequisites: junior standing, WGS 200(P) or WGS 201(P), & WGS 410(P)  
or equivalent; or graduate standing.  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 305 Feminist Theory and Methodology:  
3 cr. Undergraduate.  
An interdisciplinary study of foundational feminist theories  
interrogating gender oppression in relation to race, class, sexuality, and  
other identities.  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 308 Honors Seminar in the Social Sciences:  
3 cr. Undergraduate.  
Selected topics in women's and gender studies from a social science  
perspective.  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May be retaken with change in topic to 9 cr max.  
General Education Requirements: SS  
Last Taught: Fall 2019, Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 380 Honors Seminar in the Social Sciences:  
3 cr. Undergraduate.  
Selected topics in women's and gender studies from a social science  
perspective.  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May be retaken with change in topic to 9 cr max.  
General Education Requirements: SS  
Last Taught: Fall 2019, Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 381 Honors Seminar in the Humanities:  
3 cr. Undergraduate.  
Selected topics in women's and gender studies from a humanities  
perspective.  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May be retaken with change in topic to 9 cr max.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 385 Capstone Seminar in Women's and Gender Studies:  
3 cr. Undergraduate.  
Capstone course for women's and gender studies majors and certificate  
students, focusing on student research on various topics pertaining to  
women such as 'Gender and Power.'  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 399 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period.  
Requires only dept & assoc dean approval. In exceptional circumstances,  
can be offered in one add'l sem.  
Prerequisites: none; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 401 Global Feminisms  
3 cr. Undergraduate.  
Interdisciplinary feminist study of women's rights movements and  
issues relating to gender and sexuality globally; study of international  
feminisms, women of color feminisms, and postcolonial feminisms in  
historical and contemporary contexts.  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 402 Capstone Seminar in Women's and Gender Studies:  
3 cr. Undergraduate.  
Capstone course for women's and gender studies majors and certificate  
students, focusing on student research on various topics pertaining to  
women such as 'Gender and Power.'  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 410 Feminist Theory  
3 cr. Undergraduate.  
An interdisciplinary survey of foundational feminist theories  
interrogating gender oppression in relation to race, class, sexuality, and  
other identities.  
Prerequisites: junior standing and WGS 200(P) or WGS 201(P).  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/  

WGS 411 Women's and Gender Studies Research Methods:  
3 cr. Undergraduate.  
Interdisciplinary course with focus on women's and gender studies  
research methods, explored through selected topics such as 'Gendered  
Bodies.'  
Prerequisites: junior standing, WGS 200(P) or WGS 201(P), & WGS 410(P)  
or equivalent; or graduate standing.  
Course Rules: May not be retaken for cr.  
Current Offerings: https://catalog.uwm.edu/course-search/
WGS 411G Women’s and Gender Studies Research Methods:  
3 cr. Undergraduate/Graduate. 
Interdisciplinary course with focus on women’s and gender studies research methods, explored through selected topics such as ‘Gendered Bodies.’ 
**Prerequisites:** junior standing, WGS 200(P) or WGS 201(P), & WGS 410(P) or equivalent; or graduate standing. 
**Course Rules:** May not be retaken for cr. 
**Last Taught:** Spring 2020, Spring 2019. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 489 Internship in Women's and Gender Studies  
1-3 cr. Undergraduate. 
Application of advanced principles of Women’s and Gender Studies in an appropriate organizational, educational, business, or political setting. 
**Prerequisites:** jr st; WGS(Wmns) 200(P), 201(P), 500(P), or 501(P); 2.50 gpa & cons Women's and Gender Studies Prog dir. 
**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. 
**Last Taught:** Spring 2020, Spring 2019, Fall 2018, Summer 2018. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 497 Study Abroad:  
1-12 cr. Undergraduate/Graduate. 
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. 
**Prerequisites:** jr st; acceptance for Study Abroad Prog. 
**Course Rules:** May be retaken w/chg in topic. 
**Last Taught:** Fall 2019, Spring 2019. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 497G Study Abroad:  
1-12 cr. Undergraduate/Graduate. 
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. 
**Prerequisites:** jr st; acceptance for Study Abroad Prog. 
**Course Rules:** May be retaken w/chg in topic. 
**Last Taught:** Fall 2019, Spring 2019. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 499 Ad Hoc:  
1-6 cr. Undergraduate. 
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. 
**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic. 
**Course Rules:** May be retaken w/chg in topic. 
**Last Taught:** Spring 2008, Spring 2001. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 500 Advanced Social Science Seminar in Women's and Gender Studies:  
3 cr. Undergraduate/Graduate. 
Theoretical foundations of feminist research and exploration of the tools, methodology and analytical skills employed in interdisciplinary women’s and gender studies scholarship. 
**Prerequisites:** jr st; 6 cr in women’s and gender studies. 
**Course Rules:** May be retaken w/chg in topic to 9 cr combined max for WGS(Wmns) 500 & 501. 
**Last Taught:** Fall 2019. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 500G Advanced Social Science Seminar in Women's and Gender Studies:  
3 cr. Undergraduate/Graduate. 
Theoretical foundations of feminist research and exploration of the tools, methodology and analytical skills employed in interdisciplinary women’s and gender studies scholarship. 
**Prerequisites:** jr st; 6 cr in women’s and gender studies. 
**Course Rules:** May be retaken w/chg in topic to 9 cr combined max for WGS(Wmns) 500 & 501. 
**Last Taught:** Fall 2019. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 501 Advanced Humanities Seminar in Women’s and Gender Studies:  
3 cr. Undergraduate/Graduate. 
Theoretical foundations of feminist research and exploration of the tools, methodology and analytical skills employed in interdisciplinary women’s and gender studies scholarship. 
**Prerequisites:** jr st; 6 cr in women’s and gender studies. 
**Course Rules:** May be retaken w/chg in topic to combined max of 9 cr for WGS(Wmns) 500 & 501. 
**Last Taught:** Fall 2017, Spring 2015. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 501G Advanced Humanities Seminar in Women's and Gender Studies:  
3 cr. Undergraduate/Graduate. 
Theoretical foundations of feminist research and exploration of the tools, methodology and analytical skills employed in interdisciplinary women’s and gender studies scholarship. 
**Prerequisites:** jr st; 6 cr in women’s and gender studies. 
**Course Rules:** May be retaken w/chg in topic to combined max of 9 cr for WGS(Wmns) 500 & 501. 
**Last Taught:** Fall 2017, Spring 2015. 
**Current Offerings:** https://catalog.uwm.edu/course-search/

WGS 535 Philosophical Topics in Feminist Theory:  
3 cr. Undergraduate/Graduate. 
Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised. 
**Prerequisites:** jr st; a course in philos or women’s and gender stds. 
**Course Rules:** May be retaken w/chg in topic to a 6 cr max. Philos 535 & WGS(Wmns) 535 are jointly offered; with same topic, they count as repeats of one another. 
**Last Taught:** Fall 2017, Fall 2016. 
**Current Offerings:** https://catalog.uwm.edu/course-search/
WGS 535G Philosophical Topics in Feminist Theory
3 cr. Undergraduate/Graduate.
Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised.
Prerequisites: jr st; a course in philos or women's and gender stds.
Course Rules: May be retaken w/chg in topic to a 6 cr max. Philos 535 & WGS(Wmns) 535 are jointly offered; with same topic, they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 599 Topics in Women's and Gender Studies:
1-3 cr. Undergraduate/Graduate.
Specific topics, cr, and add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 599G Topics in Women's and Gender Studies:
1-3 cr. Undergraduate/Graduate.
Specific topics, cr, and add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2006, Fall 2005.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under supervision of a Wmns Stds faculty or instructional academic staff member. Students must submit study proposal. For more information, consult Women's Studies Program Assistant Director.
Prerequisites: jr st; 2.0 GPA; consent of instructor, Women's & Gender Studies Program Director, and Assistant Dean for Student Academic Services.
Course Rules: May be retaken for cr.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 700 Feminist Issues and Scholarship
3 cr. Graduate.
Advanced introduction to feminist scholarship and research in multiple disciplines and introduction to the disciplinary history of Women's Studies.
Prerequisites: grad st.
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 701 Transnational Feminisms
3 cr. Graduate.
Interdisciplinary graduate-level course focusing on women, men, and gender relationships in international perspective, including the social and cultural conditions within which they live.
Prerequisites: grad st.
Last Taught: Spring 2019, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 710 Advanced Feminist Theory
3 cr. Graduate.
Interdisciplinary graduate-level seminar on introductory themes, issues, and conflicts in feminist theory.
Prerequisites: grad st
Last Taught: Fall 2019, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 711 Feminist Epistemologies and Research Practices
3 cr. Graduate.
Interdisciplinary graduate-level course with focus on Women's and Gender Studies research methods.
Prerequisites: grad st.
Course Rules: Not retakable.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 799 Advanced Topics in Women's and Gender Studies:
1-3 cr. Graduate.
Advanced examination and analysis of selected Women's and Gender Studies issues and topics for graduate students.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 820 Women’s and Gender Studies Graduate Practicum
3 cr. Graduate.
Internship, field experience, or related practical experience that provides students the opportunity to apply feminist theories and research methods in a practical context.
Prerequisites: grad st; WGS 710(P) & 711(P).
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: graduate standing.
Course Rules: Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 990 Research and Thesis
1-3 cr. Graduate.
Reserved for research in connection with master's thesis.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

WGS 999 Advanced Independent Work
1-6 cr. Graduate.
Independent reading or project; topic selected in agreement with supervising professor.
Prerequisites: grad st; cons Wmns dir.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2020, Fall 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/